

School of Chemistry
Tentative Course List-Vasanth 2025

Course Code	Course Name	Assigned Faculty
First Year Courses (NEP)		
CHY121 [3-1-0-4]	Physical Chemistry I	Prof. K. George Thomas (Primary) Prof. Mahesh Hariharan
CHY122 [0-0-3-1]	Chemistry Lab II (Physical Lab)	Dr. Vinesh Vijayan (Coordinator) Dr. Reji Varghese Dr. Indranil Mondal Dr. Krishnadas
Second Year Courses (NEP)		
CHY221/2201 [3-0-0-3]	Chemistry of Biomolecules and Heterocycles MINOR	Dr. Basudev Sahoo
CHY311/3101 [3-0-0-3]	Coordination Chemistry	Dr. Subrata Kundu
CHY312 [3-0-0-3]	Organic Chemistry – Reactions and Mechanisms	Dr. Rajendar Goreti
CHY313 [3-0-0-3]	Quantum Chemistry	Dr. R. S. Swathi
CHY314/3104 [3-0-0-3]	Physical Chemistry II	Dr. Jerry Fereiro
Third Year BS-MS and M.Sc./IPh. D. /Ph. D. Courses (Non-NEP)		
CHY/MS321/621 [3-0-0-3]	Organometallic Chemistry	Dr. Ravi Yadav
CHY322/622/3202 [3-0-0-3]	Solid-State Chemistry MINOR (Elective for i2C and MSc students only)	Prof. Sukhendu Mandal
CHY/MS323 [3-0-0-3]	Organic Chemistry - Synthetic Methods MINOR	Dr. Alagiri Kaliyamoorthy
CHY/MS324/624 [3-0-0-3]	Theoretical Spectroscopy MINOR	Dr. Adithya Lakshmanna
CHY/MS325 [0-0-9-3]	Inorganic Chemistry Laboratory	Dr. A. Thirumurugan (Coordinator) Dr. Ramaraj Ayyappan
CHY5205 [3-0-0-3]	Name Reactions and Rearrangements - Application in Organic Synthesis (Elective)	Dr. Veera Reddy Yatham
Fourth/Fifth Year BS-MS, M.Sc./IPh. D./Ph. D. Courses (Non-NEP)		
CHY421/617/MS421 [3-0-0-3]	Instrumental Methods for Structure Determination (MS421 for 1 st year MSc students only)	Dr. Reji Varghese Dr. Ramaraj Ayyappan
CHY422/CHY626 [3-0-0-3]	Physical Organic Chemistry	Dr. Soumen De
I2C421 [3-0-0-3]	Soft Matter and Polymers	Prof. Kana M. Sureshan (Coordinator)

I2C422/CHY/AOE5218 [3-0-0-3]	Biomaterials	Dr. Rajendra Kurapati
I2C423 [0-0-9-3]	Chemical Biology Lab	Dr. Sreejith Jayasree Varma (Coordinator) Prof. Shymalava Majumdar Dr. Rajendra Kurapati Dr. Vinesh Vijayan
I2C516 [3-0-0-3]	Chemical Genomics and Proteomics	Prof. Shymalava Majumdar (Primary) Dr. Sreejith Jayasree Varma
I2C521 [3-0-0-3]	Pharmacology and Pharmacokinetics	Dr. Ayan Mukherjee
I2C522 [3-0-0-3]	Computational Chemical Biology	Dr. Pushpita Ghosh (Coordinator)
CHY4202 [3-0-0-3]	Catalysis in Organic Synthesis (Elective)	Dr. Ramesh Rasappan
CHY4206/6206 [3-0-0-3]	Main Group Catalysis (Elective)	Dr. Ajay Venugopal
CHY4207/6207 [3-0-0-3]	Bioinorganic Chemistry (Elective)	Dr. Gokulnath Sabapathi
CHY5219 [3-0-0-3]	Introduction to Fuel Cells (Elective)	Dr. A. Muthukrishnan
CHY5203 [3-0-0-3]	Computational Chemistry (Elective)	Dr. V. Sivaranjana Reddy
CHY5211 [3-0-0-3]	Symmetry and Group Theory in Chemistry (Elective)	Dr. Pushpita Ghosh
Projects		
CHY450	Chemistry Minor Project (6 Credits)	Dr. A. Muthukrishnan
CHY521	Chemistry Major Project Phase 2 (18 Credits)	Dr. Soumen De
I2C521	I ² Chemistry Project Phase 2 (18 Credits)	
MSC428	MSC Phase 2 (9 Credits)	Dr. Veera Reddy Yatham
MSC429	MSC Project (12 Credits)	
CHY425	IPhD Research work (6 Credits)	Dr. Gokulnath Sabapathi
CHY699 (II)	IPhD Project 2 (15 Credits)	