

Name of the Academic Department / Center:	Chemistry
Academic Year:	2024-2025
Session:	Monsoon semester July-Nov 2024

The Complete List of all Courses that will be offered by the Department/ Center in the next semester **2024-NOV 2024** (including preparatory, core, compulsory, elective, theory, lab, seminar, project, reading course, etc.) is to be given below. [With existing FOUR DIVISIONS in CH 101]

Sl. No.	Course No.	Course Title	L	T	P	C	Type of Course (Compulsory / Open Elective/ Dept. Elective)	Offered to Whom (Program & Semester)	Name(s) of Course Instructor(s)	Exam Slot	Class Slot	Class Room	Note
B. Tech. [Preparatory]													
1	CH 001	Preparatory Chemistry (Physical)	3	2	0	10	Preparatory	Pre B.Tech.	SD				
B. Tech. (CST) [First Year]													
1	CH 101	Chemistry	3	1	0	8	Compulsory (Physical, Organic, Inorganic)	B.Tech., I Semester	(CVS coordinator), AC+ AD+PKK	D1	D,D1		
2	CH 101	Chemistry Tutorial	0	1	0	2	Compulsory	B.Tech., I Semester	All faculties				
3	CH 110	Chemistry Laboratory	0	0	3	3	Compulsory, Lab	B.Tech., I Semester	UM (Coordinator 2), AKS+ SCP(1), PKI(1), BKP(1), TP(1), KPB(1), SSB(1) DPD(1) ASA(1)				
B. Tech. (CST) [Second Year]													
4	MA 201	Mathematics - III	3	1	0	8	Compulsory	B.Tech., III Semester		A	A		
5	CL 201	Chemical Process Calculations	2	1	0	6	Compulsory	B.Tech., III Semester		C	C		
6	CL 202	Fluid Mechanics	2	1	0	6	Compulsory	B.Tech., III Semester		D	D		
7	CH 212	Inorganic Chemistry	3	0	0	6	Compulsory	B.Tech., III Semester	MR	F	F	5003	
8	CH 221	Organic Chemistry	3	1	0	8	Compulsory	B.Tech., III Semester	AKS + SCP	B	B	5003	
9	CH 231	Introduction to Quantum Chemistry	3	0	0	6	Compulsory	B.Tech., III Semester	ANP	E	E	5003	
		Minor course-I								G	G		
B. Tech. (CST) [Third Year]													
10	CH 426	Green Chemistry and Technology	3	0	0	6	Open Elective	B.Tech., V Semester	ATK	F1	F1	L2	
11	CH 302	Technical Report Presentation	0	0	3	3	Compulsory	B.Tech., V Semester	ASA		ML5/G	3003	
12	CH 301	Environmental Chemistry	3	0	0	6	Compulsory	B.Tech., V Semester	SKS	B 1	B1	5003	
13	CH 316	Frontiers of Coordination Chemistry	3	0	0	6	Compulsory	B.Tech., V Semester	VM	C1	C1	5003	
14	CH 331	Chemical Kinetics and Electrochemistry	3	0	0	6	Compulsory	B.Tech., V Semester	AP+KS	A1	A1 (except 2-3)	5003	

15	CH 314	Chemical Technology Lab - II (Inorganic)	0	0	6	6	Compulsory, Lab	B.Tech., V Semester	AKSA+SPB		ML3,ML4		
16	HS 1XX	HSS Elective - II (Level - I)	3	0	0	6	HSS Elective	B.Tech., V Semester		G1			
		MINOR course- III								E1			
B. Tech. (CST) [Fourth Year]													
17	CH 401	Modern Chemical Technology	3	0	0	6	Compulsory	B.Tech., VII Semester	LMK	E	E	5002	
18	CH 498	Project - I	0	0	12	12	Compulsory	B.Tech., VII Semester					
19	CH 417	Organometallic Chemistry	3	0	0	6	Dept. Elective	B.Tech., VII Semester	KM	B	B	5002	
20	CH 427	Medicinal Chemistry	3	0	0	6	Dept. Elective	B.Tech., VII Semester	BHM	C	C	5002	
21	CH429	Petroleum Chemistry	3	0	0	6	Open Elective - II	B.Tech., VII Semester	PKI + BKP	F	F	L3	
22	HS 2XX	HSS Elective - I (Level II)	3	0	0	6	HSS Elective	B.Tech., VII Semester		G	G		
		Minor-V								A	A		
M. Sc. (Chemistry) [First Year]													
23	CH 410	Chemistry of p-and d-Block Elements	3	1	0	8	Compulsory	M.Sc. I Semester	AKSA+SPB	C	C	3003	
24	CH 420	Principles of Organic Chemistry	3	1	0	8	Compulsory	M.Sc. I Semester	TP + KPB	D	D	3003	
25	CH 430	Quantum Chemistry	3	1	0	8	Compulsory	M.Sc. I Semester	KB	A	A	3003	
26	CH 431	Group Theory and Spectroscopy	3	1	0	8	Compulsory	M.Sc. I Semester	GK	B	B	3003	
27	CH 435	Physical Chemistry Laboratory	0	0	9	9	Compulsory	M.Sc. I Semester	KR + DM		AL1, AL2, AL3		
M. Sc. (Chemistry) [Second Year]													
28	CH 511	Principles of Bioinorganic Chemistry	3	1	0	8	Compulsory	M.Sc. III Semester	BM	C	C	3102	
29	CH 520	Concepts in Organic Synthesis	3	1	0	8	Compulsory	M.Sc. III Semester	CKJ	D	D	3102	
30	CH 521	Bio-organic Chemistry	3	1	0	8	Compulsory	M.Sc. III Semester	SSB + DPD	B	B	3102	
31	CH 530	Classical and Statistical Thermodynamics	3	1	0	8	Compulsory	M.Sc. III Semester	MS	A	A	3102	
32	CH 515	Inorganic Chemistry Laboratory	0	0	9	9	Compulsory, Lab	M.Sc. III Semester	CM		AL2, AL3,AL4		
Ph. D. (Chemistry)													
33	CH 601	Physical Methods in Chemistry	3	0	0	6	Dept. Elective	Ph.D.	MQ	G	G	5002	

34	CH 626	Art in Organic Synthesis	3	0	0	6	Dept. Elective	Ph.D.	DS	B1	B1	5002	
35	CH 633	Chemical Applications of Group Theory	3	0	0	6	Dept. Elective	Ph.D.	AKG	E1	E1	5002	
36	CH 637	Computational Methods in Chemistry	2	0	2	6	Dept. Elective	Ph.D.	DD	F	F, AL2	5002	
37	CH 628	Chemistry of Biological Macromolecules	3	0	0	6	Dept. Elective	PhD	SC	D	D	5002	
38	CH 645	Scientific Writing and Presentation	3	0	0	6	Dept. Elective	PhD	JBB	C1	C1 (except 2.00-2.55)	5002	
41	CH614	Supramolecules concept and applications	3	0	0	6	Dept. Elective	PhD	GD	A	A	5002	