

Name of the Academic Department / Center:	Chemistry
Academic Year:	2024 - 2025
Session:	Winter/Even Semester (January - May 2025)

Sl. No.	Course No	Course Title	L	T	P	C	Type of Course(Compulsory/ Dept. Elective/ Open Elective)	Offered to Programme	Semester (1 to 8)	Name(s) of Course Instructor(s)	IITG Email ID of course instructors	Class Slot	Exam Slot	Room No.
<b>B. Tech. [Preparatory]</b>														
1	CH 002	Preparatory Chemistry II	3	2	0	10	Preparatory(Organic/Inorganic)	Pre B. Tech.	2	CVS+ATK	sastricv,atk			
<b>B. Tech. (CST) [Second Year]</b>														
2	CH 222	Applied Organic Chemistry	3	0	0	6	Compulsory	B. Tech.	4	KPB	kbhabak			
3	CH 224	Group Theory	3	0	0	6	Compulsory	B. Tech.	4	SD	sumana			
4	CH 211	Industrial Chemistry	3	0	0	6	Compulsory	B.Tech	4	SKS+SPB	sbiswas,sksarkar			
5	CH 233	Spectroscopic Techniques in Chemistry	3	0	0	6	Compulsory	B. Tech.	4	GK	gkrishna			
6	CH 223	Chemical Technology Lab - I (Organic)	0	0	6	6	Compulsory, Lab	B. Tech.	4	SCP	span			
7	HS 1XX	HSS Elective - I (Level - I)	3	0	0	6	HSS Elective	B. Tech.	4					
		Minor												
<b>B. Tech. (CST) [Third Year]</b>														
8	CH 332	Computational Chemistry	2	0	2	6	Compulsory		6	KB+DD	ksb, ddhabal			
9	CH 335	Application of Nanomaterials	3	0	0	6	Compulsory	B. Tech.	6	KR+MQ	mq, k.raidongia			
10	CH 323	Polymer Chemistry	3	0	0	6	Compulsory	B. Tech.	6	ASA	achalkumar			
11	CH 334	Chemical Technology Lab - III (Physical)	0	0	6	6	Compulsory, Lab	B. Tech.	6	KB+DD+KR	ksb,ddhabal,k.raidongia			
12	CH 419	Consumer Chemistry	0	0	6	6	Open Elective	B. Tech.	6	BKP+PKI	patel,pki			
<b>Minor</b>														
<b>B. Tech. (CST) [Fourth Year]</b>														
13	CH 418	Biological Chemistry of Metal Ions	3	0	0	6	Dept. Elective - III	B. Tech.	8	MR	manabray			
14	CH 428	Drug Design and Development	3	0	0	6	Dept. Elective - IV	B. Tech.	8	BHM	bmandal			
15	CH 438	Application to Statistical Mechanics to Chem	3	0	0	6	Dept. Elective - IV	B. Tech.	8	SP	sandipp			
16	CH 437	Chemical Approaches to Nanoscale Science	3	0	0	6	Dept. Elective -V	B. Tech.	8	AC+UM	arun, umanna			
17	CH 499	Project - II	0	0	12	12	Compulsory	B. Tech.	8					
18	CH 644	Applied Quantum Chemistry	2	0	2	6	Open Elective	B. Tech. + MSc	8	MS	msarma			
19	HS 2XX	HSS Elective - II (Level - II)	3	0	0	6	HSS Elective	B. Tech.	8					
<b>M. Sc. (Chemistry) [First Year]</b>														
20	CH 400	Computers and Chemistry	2	0	2	6	Compulsory	M. Sc.	2	ANP	anp			

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21	CH 411	Inorganic Reaction Mechanism and Organometallics	3	1	0	8	Compulsory	M. Sc.	2	CM+AKAS	cmukherjee,akshaikumar			
22	CH 421	Organic Reactions Mechanisms	3	1	0	8	Compulsory	M. Sc.	2	AKS+DS	asaikia, dsrimani			
23	CH 425	Organic Chemistry Laboratory	0	0	9	9	Compulsory, Lab	M. Sc.	2	CKJ+LMK	ckjana,lmkundu			
24	CH 432	Chemical Dynamics and Electrochemistry	3	1	0	8	Compulsory	M. Sc.	2	AP	anumita			
25	CH 433	Applications of Spectroscopy	3	1	0	8	Compulsory	M. Sc.	2	GD+SC	gdas,sunanda.c			
<b>M. Sc. (Chemistry) [Second Year]</b>														
26	CH 500	Graduate Seminar	0	0	2	2	Compulsory	M. Sc.	4	JBB	juba			
27	CH 600	Project	0	0	18	18	Compulsory	M. Sc.	4					
	CH 612	Inorganic Clusters	3	0	0	6	Dept. Elective - I	M. Sc. + PhD	4	VM	mani			
28	CH 613	Applied Inorganic Chemistry	3	0	0	6	Dept. Elective - I	M. Sc. + PhD	4	KM	kingsuk			
29	CH 623	Supramolecular Chemistry	3	0	0	6	Dept. Elective-I	M. Sc+PhD	4	DPD	ddas			
30	CH 621	Modern Reagents in Organic Synthesis	3	0	0	6	Dept. Elective - I	M. Sc.	4	PKK	pavankancharla			
32	CH 631	Advanced Quantum Chemistry	3	0	0	6	Dept. Elective - II	M. Sc. + PhD+ Btech	4	ARG	gupta			
33	CH 639	Principles and Applications of Molecular Fluorescence	3	0	0	6	Dept. Elective - II	M. Sc. + PhD	4	KS	ksahu			
<b>Ph. D. (Chemistry) [First Year]</b>														
34	CH 618	Bio-inorganic Chemistry	3	0	0	6	Dept. Elective	Ph. D.	1 or 2	BM	biplab			
35	CH 627	New Reagents for Organic Synthesis	3	0	0	6	Dept. Elective	Ph. D.	1 or 2	TP	tpunni			
36	CH 629	Advances in Bio-organic Chemistry	3	0	0	6	Dept. Elective	Ph. D.	1 or 2	SSB	ssbag75			
37	CH 617	Organometallics	3	0	0	6	Dept. Elective	Ph. D.	1 or 2	AD	adas			
38	CH 625	Advances in Biological macromolecules	3	0	0	6	Dept. Elective	Ph. D.	1 or 2	DM	dmanna			