

Name of the Academic Department / Center:	Chemistry
Academic Year:	2023 - 2024
Session:	Winter/Even Semester (January - May 2024)

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	GD+DS				
<b>B. Tech. (CST) [Second Year]</b>														
2	CH 222	Applied Organic Chemistry	3	0	0	6	Compulsory	B. Tech.	4	ASA		D	D	5203
3	CH 224	Group Theory	3	0	0	6	Compulsory	B. Tech.	4	VM		B	B	5203
4	CH 211	Industrial Chemistry	3	0	0	6	Compulsory	B.Tech	4	AKSA+SXS		C	C	5203
5	CH 233	Spectroscopic Techniques in Chemistry	3	0	0	6	Compulsory	B. Tech.	4	KS		A	A	5203
6	CH 223	Chemical Technology Lab - I (Organic)	0	0	6	6	Compulsory, Lab	B. Tech.	4	LMK		AL1AL2		
7	HS 1XX	HSS Elective - I (Level - I)	3	0	0	6	HSS Elective	B. Tech.	4			G	G	
		Minor										F	F	
<b>B. Tech. (CST) [Third Year]</b>														
8	CH 332	Computational Chemistry	2	0	2	6	Compulsory		6	ANP		C1, ML2	C1,	5203
9	CH 335	Application of Nanomaterials	3	0	0	6	Compulsory	B. Tech.	6	MQ		B1	B1	5203
10	CH 323	Polymer Chemistry	3	0	0	6	Compulsory	B. Tech.	6	UM		D1	D1	5203
11	CH 334	Chemical Technology Lab - III (Physical)	0	0	6	6	Compulsory, Lab	B. Tech.	6	DM+DD		ML3.ML4		
12	CH 419	Consumer Chemistry	0	0	6	6	Open Elective	B. Tech.	6	BKP+PKI		F1	F1	L2
		Minor										G1	G1	
<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	CVS		A	A	3101
14	CH 428	Drug Design and Development	3	0	0	6	Dept. Elective - IV	B. Tech.	8	BhM		B	B	3101
15	CH 438	Application to Statistical Mechanics to Che	3	0	0	6	Dept. Elective - IV	B. Tech.	8	AKG		C	C	3101
16	CH 437	Chemical Approaches to Nanoscale Scien	3	0	0	6	Dept. Elective -V	B. Tech.	8	AC+KR		D	D	3101
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		F, AL4	F	5101
19	HS 2XX	HSS Elective - II (Level - II)	3	0	0	6	HSS Elective	B. Tech.	8			G1	G1	
<b>M. Sc. (Chemistry) [First Year]</b>														
20	CH 400	Computers and Chemistry	2	0	2	6	Compulsory	M. Sc.	2	SP		F, AL5	F	3003

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21	CH 411	Inorganic Reaction Mechanism and Organometallics	3	1	0	8	Compulsory	M. Sc.	2	BM+SPB		C	C	3003
22	CH 421	Organic Reactions Mechanisms	3	1	0	8	Compulsory	M. Sc.	2	PKK+ KPB		D	D	3003
23	CH 425	Organic Chemistry Laboratory	0	0	9	9	Compulsory, Lab	M. Sc.	2	ATK+CKJ		AL2,AL3,A		
24	CH 432	Chemical Dynamics and Electrochemistry	3	1	0	8	Compulsory	M. Sc.	2	AP+SD		A	A	3003
25	CH 433	Applications of Spectroscopy	3	1	0	8	Compulsory	M. Sc.	2	SC +CM		B	B	3003
<b>M. Sc. (Chemistry) [Second Year]</b>														
26	CH 500	Graduate Seminar	0	0	2	2	Compulsory	M. Sc.	4	SCP		AL4		3003
27	CH 600	Project	0	0	18	18	Compulsory	M. Sc.	4					
28	CH 613	Applied Inorganic Chemistry	3	0	0	6	Dept. Elective - I	M. Sc. + PhD	4	KM		A	A	4006
29	CH 623	Supramolecular Chemistry	3	0	0	6	Dept. Elective-I	M. Sc.	4	JBB		B	B	4006
30	CH 621	Modern Reagents in Organic Synthesis	3	0	0	6	Dept. Elective - I	M. Sc.	4	TP		D	D	4006
32	CH 631	Advanced Quantum Chemistry	3	0	0	6	Dept. Elective - II	M. Sc. + PhD+ Btech	4	KB		C	C	4006
33	CH 639	Principles and Applications of Molecular Fluorescence	3	0	0	6	Dept. Elective - II	M. Sc. + PhD	4	GK		E	E	4006
<b>Ph. D. (Chemistry) [First Year]</b>														
34	CH 618	Bio-inorganic Chemistry	3	0	0	6	Dept. Elective	Ph. D.	1 or 2	MR		G	D1	3003
35	CH 627	New Reagents for Organic Synthesis	3	0	0	6	Dept. Elective	Ph. D.	1 or 2	AKS		A1	A1	3101
36	CH 629	Advances in Bio-organic Chemistry	3	0	0	6	Dept. Elective	Ph. D.	1 or 2	SSB		C1	C1	3101
37	CH 617	Organometallics	3	0	0	6	Dept. Elective	Ph. D.	1 or 2	AD		B1	B1	3101
38	CH603	Concepts for Molecular Machine	3	0	0	6	Dept. Elective	Ph. D.	1 or 2	DPD		E1	E1	3101