

Name of the Academic Department / Center: **Chemistry**Academic Year: **2022-2023**Session: **Monsoon semester July-Nov 2022**The **Complete List** of all Courses that will be offered by the Department/ Center in the next semester **JULY-NOV 2022** (including preparatory, [With existing **FOUR DIVISIONS** in **CH 101**], core, compulsory, elective, theory, lab, seminar, project, reading course, etc.) is to be given below.

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)	Class Slot	Class Room
B. Tech. (CST) [First Year] [20: First year, 2022 batch]											
1	CH 101	Chemistry	3	1	0	8	Compulsory	B.Tech., I Semester	CVS(co-ordinator), AC/SCP/AKAS	D/D1	
2	CH 101	Chemistry Tutorial	0	1	0	2	Compulsory	B.Tech., I Semester			
3	CH 110	Chemistry Laboratory	0	0	3	3	Compulsory, Lab	B.Tech., I Semester	DD(co-ordinator, 2), BKP(1), PKI(1), DS(1), TP(1), LMK(1), SSB(1), CKJ(1), PKK(1)	DD (ML1,AL4), BKP (ML4), PKI (ML3), DS (AL1), TP (AL3), CKJ (ML2), PKK (AL2), SSB (ML5), LMK (AL5)	
B. Tech. (CST) [Second Year] [2021 Batch]											
4	MA 201	Mathematics - III	3	1	0	8	Compulsory	B.Tech., III Semester		A	
5	CL 201	Chemical Process Calculations	2	1	0	6	Compulsory	B.Tech., III Semester		C	
6	CL 202	Fluid Mechanics	2	1	0	6	Compulsory	B.Tech., III Semester		D	
7	CH 212	Inorganic Chemistry	3	0	0	6	Compulsory	B.Tech., III Semester	MR	B1	5201
8	CH 221	Organic Chemistry	3	1	0	8	Compulsory	B.Tech., III Semester	ASA	C1	5201
9	CH 231	Introduction to Quantum Chemistry	3	0	0	6	Compulsory	B.Tech., III Semester	ANP	D1	5201
B. Tech. (CST) [Third Year] [2020 Batch]											
10	CH 426	Green Chemistry and Technology	3	0	0	6	Open Elective	B.Tech., V Semester	ATK	F	5G1
11	CH 302	Technical Report Presentation	0	0	3	3	Compulsory	B.Tech., V Semester	CVS	AL4	3003
12	CH 301	Environmental Chemistry	3	0	0	6	Compulsory	B.Tech., V Semester	CM	B	5201
13	CH 316	Frontiers of Coordination Chemistry	3	0	0	6	Compulsory	B.Tech., V Semester	VM	C	5201
14	CH 331	Chemical Kinetics and Electrochemistry	3	0	0	6	Compulsory	B.Tech., V Semester	KS	D	5201
15	CH 314	Chemical Technology Lab - II (Inorganic)	0	0	6	6	Compulsory, Lab	B.Tech., V Semester	KM	AL1, AL2	
16	HS 1XX	HSS Elective - II (Level - I)	3	0	0	6	HSS Elective	B.Tech., V Semester		G	
B. Tech. (CST) [Fourth Year] [2019 Batch]											
17	CH 401	Modern Chemical Technology	3	0	0	6	Compulsory	B.Tech., VII Semester	BhM	A1	5105
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	SPB	B1	5105
20	CH 427	Medicinal Chemistry	3	0	0	6	Dept. Elective	B.Tech., VII Semester	KPB	C1	5105
21	CH429	Petroleum Chemistry	3	0	0	6	Open Elective - II	B.Tech., VII Semester	BKP/PKI	F1	
22	HS 2XX	HSS Elective - I (Level II)	3	0	0	6	HSS Elective	B.Tech., VII Semester		G	
M. Sc. (Chemistry) [First Year] [2022 Batch]											
23	CH 410	Chemistry of p-and d-Block Elements	3	1	0	8	Compulsory	M.Sc. I Semester	JBB	C	5105
24	CH 420	Principles of Organic Chemistry	3	1	0	8	Compulsory	M.Sc. I Semester	TP/DS	D	5105
25	CH 430	Quantum Chemistry	3	1	0	8	Compulsory	M.Sc. I Semester	AP	A	5105
26	CH 431	Group Theory and Spectroscopy	3	1	0	8	Compulsory	M.Sc. I Semester	GK	B	5105
27	CH 435	Physical Chemistry Laboratory	0	0	9	9	Compulsory	M.Sc. I Semester	DM/KR	AL1, AL2, AL3	
M. Sc. (Chemistry) [Second Year] [2021 Batch]											
28	CH 511	Principles of Bioinorganic Chemistry	3	1	0	8	Compulsory	M.Sc. III Semester	BM	A	3003
29	CH 520	Concepts in Organic Synthesis	3	1	0	8	Compulsory	M.Sc. III Semester	CKJ/PKK	B	3003
30	CH 521	Bio-organic Chemistry	3	1	0	8	Compulsory	M.Sc. III Semester	SSB/LMK	C	3003
31	CH 530	Classical and Statistical Thermodynamics	3	1	0	8	Compulsory	M.Sc. III Semester	SP	D	3003
32	CH 515	Inorganic Chemistry Laboratory	0	0	9	9	Compulsory, Lab	M.Sc. III Semester	AD	AL2, AL3, AL4	
Ph. D. (Chemistry) [First Year]											
33	CH 601	Physical Methods in Chemistry	3	0	0	6	Dept. Elective	Ph.D.	MQ	C	5205
34	CH 626	Art in Organic Synthesis	3	0	0	6	Dept. Elective	Ph.D.	AKS	D	5205
35	CH 633	Chemical Applications of Group Theory	3	0	0	6	Dept. Elective	Ph.D., B.Tech., VII Semester	SD	D1	5205
36	CH 637	Computational Methods in Chemistry	2	0	2	6	Dept. Elective	Ph.D.	MS	A and AL3	5205
37	CH 628	Chemistry of Biological Macromolecules	3	0	0	6	Dept. Elective	PhD	SC	F	5205
38	CH 614	Supramolecules: Concepts and Applications	3	0	0	6	Dept. Elective	PhD	GD	B	5205
39	CH 645	Scientific Writing and Presentation	3	0	0	6	Dept. Elective	PhD	UM	C1	5205
40	CH634	Time dependent Quantum Mechanics	3	0	0	6	Dept. Elective	PhD	AKG	B1	5205