

Name of the Academic Department / Center:		Chemistry	
Academic Year:	2023-2024		
Section:	Monsoon semester July-Nov 2023		

The **Complete List** of all Courses that will be offered by the Department/ Center in the next semester: **2021-NOV-2022** including preparatory, core,

[With existing FOUR DIVISIONS in CH 20-1]

compulsory, elective, theory, lab, seminar, project, reading course, etc.) is to be given below.

Sl. No.	Course No.	Course Title	S	1	2	3	4	Type of Course (Compulsory/ Open Elective/ Dept. Elective/ Seminar)	Offered in Whose (Program & Semester)	Name(s) of Course Instructor(s)	Exam Unit	Class Unit	Class Hours	Notes
B. Tech. (Preparation) [2023 Batch]														
1	CE 101	Preparatory Chemistry (Physical)	2	1	2	3	4	Preparatory	Pre & Tech.	AS				
B. Tech. (CSTI (Dist)) First year, 2023 batch														
1	CE 101	Chemistry	2	1	2	3	4	Compulsory (Physical, Organic, Inorganic)	B.Tech., I Semester	CT (Dr. Venkatesh), AZ/CP/DM	B1		B and B1	
2	CE 101	Chemistry Tutorial	2	1	2	3	4	Compulsory	B.Tech., I Semester					
3	CE 110	Chemistry Laboratory	2	1	2	3	4	Compulsory Lab	B.Tech., I Semester	Dr (Dr. Venkatesh, Z), BP/PL, POU/L, HAO (DR/L), VOR/L, PKR/L, ARS/L)				
B. Tech. (CSTI) (Second Year) [2023 batch]														
4	BA 101	Mathematics - III	2	1	2	3	4	Compulsory	B.Tech., III Semester		A		A	
5	CE 101	Chemical Process Calculations	2	1	2	3	4	Compulsory	B.Tech., III Semester		E		C	
6	CE 102	Rigid Mechanics	2	1	2	3	4	Compulsory	B.Tech., III Semester		E		D	
7	CE 112	Inorganic Chemistry	2	1	2	3	4	Compulsory	B.Tech., III Semester	DFB	F		F	1201
8	CE 121	Organic Chemistry	2	1	2	3	4	Compulsory	B.Tech., III Semester	ASA	G		A	1202
9	CE 131	Introduction to Quantum Chemistry	2	1	2	3	4	Compulsory	B.Tech., III Semester	AP	H		A	1203
		Minor courses									I		G	
B. Tech. (CSTI) (Third Year) [2023 batch]														
10	CE 126	Green Chemistry and Technology	2	1	2	3	4	Open Elective	B.Tech., V Semester	DFK	LI		BI	12
11	CE 102	Technical Report Presentation	2	1	2	3	4	Compulsory	B.Tech., V Semester	DD			BA	1201
12	CE 101	Environmental Chemistry	2	1	2	3	4	Compulsory	B.Tech., V Semester	DS+DVS	B 1		BI	1203
13	CE 116	Frontiers of Coordination Chemistry	2	1	2	3	4	Compulsory	B.Tech., V Semester	AD	CI		CI	1203
14	CE 121	Chemical Electronics and Electrochemistry	2	1	2	3	4	Compulsory	B.Tech., V Semester	GL	DI		ADD-on up to 2.00 to 1.00 (PG)	1202
15	CE 114	Chemical Technology Lab - II (Inorganic)	2	1	2	3	4	Compulsory Lab	B.Tech., V Semester	DFB+DFB+AD			MA/M64	
16	BE 15X	BEI Elective - II (Elect- II)	2	1	2	3	4	BEI Elective	B.Tech., V Semester		FI		FI	
NON-DEGREE course - BE											EL		EL	
B. Tech. (CSTI) (Fourth Year) [2023 Batch]														
17	CE 401	Modern Chemical Technology	2	1	2	3	4	Compulsory	B.Tech., VII Semester	GL	F		F	1201
18	CE 400	Project - I	2	1	2	3	4	Compulsory	B.Tech., VII Semester					
19	CE 417	Organosolids Chemistry	2	1	2	3	4	Dept. Elective	B.Tech., VII Semester	ASD	B		B	1201
20	CE 417	Medicinal Chemistry	2	1	2	3	4	Dept. Elective	B.Tech., VII Semester	DFB	C		C	1201

10429	Periodic Chemistry	2	0	0	0	App. Elective - II	0 Tech, 00 Semester	000+000	0	0	000		
1042X	000 Elective - I (Level of II)	2	0	0	0	000 Elective	0 Tech, 00 Semester		0	0			
Minor-V													
M. Sc. (Chemistry) (First Year) [2002 Rule]													
10430	Chemistry of p and d Block Elements	2	0	0	0	Compulsory	MLSc, 00 Semester	000A	0	0	000A		
10430	Principles of Organic Chemistry	2	0	0	0	Compulsory	MLSc, 00 Semester	000+000	0	0	000A		
10430	Quantum Chemistry	2	0	0	0	Compulsory	MLSc, 00 Semester	00	0	0	000A		
10431	Group Theory and Spectroscopy	2	0	0	0	Compulsory	MLSc, 00 Semester	00	0	0	000A		
10435	Physical Chemistry Laboratory	0	0	0	0	Compulsory	MLSc, 00 Semester	000+000		0,0,0,0,0,0			
M. Sc. (Chemistry) (Second Year) [2002 Rule]													
10431	Principles of Bioorganic Chemistry	2	0	0	0	Compulsory	MLSc, 00 Semester	00	0	0	000		
10430	Concepts in Organic Synthesis	2	0	0	0	Compulsory	MLSc, 00 Semester	000+00	0	0	000		
10431	Bio-organic Chemistry	2	0	0	0	Compulsory	MLSc, 00 Semester	000+000	0	0	000		
10430	Chemical and Statistical Thermodynamics	2	0	0	0	Compulsory	MLSc, 00 Semester	00	0	0	000		
10435	Inorganic Chemistry Laboratory	0	0	0	0	Compulsory Lab	MLSc, 00 Semester	00		0,0,0,0,0,0			
Ph. D. (Chemistry) (First Year)													
10401	Physical Methods in Chemistry	2	0	0	0	App. Elective	Ph.D.	00	0	0	000A		
10426	Art in Organic Synthesis	2	0	0	0	App. Elective	Ph.D.	00	0	0	000A		
10431	Chemical Applications of Group Theory	2	0	0	0	App. Elective	Ph.D., 0 Tech, 00 Semester	00	00	00	000A		
10437	Computational Methods in Chemistry	2	0	0	0	App. Elective	Ph.D.	000	00		000		
10430	Chemistry of Biological Macromolecules	2	0	0	0	App. Elective	Ph.D.	000	0	0	000A		
10445	Scientific Writing and Presentation	2	0	0	0	App. Elective	Ph.D.	00	00		00		
10424	Time Dependent Quantum Mechanics	2	0	0	0	App. Elective	Ph.D.	000	00		00		