

Program Code: 45 M.Sc. (Chemistry)
Department: CY Department of Chemistry
Year: I

Teaching Scheme					Contact Hours/Week			Exam. Duration		Relative Weight (%)				
S.No.	Sub Code	Courses Title	Sub. Area	Credits	L	T	P	T	P	CWS	PRS	MTE	ETE	PRE
Semester-I (Autumn)														
1	CYN-501	Quantum Mechanics, Symmetry and Group Theory	PCC	3	3	0	0	3	0	25	-	25	50	-
2	CYN-503	Thermodynamics and Surface Chemistry	PCC	3	3	0	0	3	0	25	-	25	50	-
3	CYN-505	Analytical Techniques	PCC	3	3	0	0	3	0	25	-	25	50	-
4	CYN-507	Advanced Organic Chemistry-I	PCC	3	3	0	0	3	0	25	-	25	50	-
5	CYN-511	Advanced Laboratory-I	PCC	6	0	0	12	0	12	-	50	-	-	50
6	CYN-509	Coordination Chemistry	PCC	3	3	0	0	3	0	25	-	25	50	-
Total					21									
Semester-II (Spring)														
1	CYN-502	Organometallic Chemistry	PCC	3	3	0	0	3	0	25	-	25	50	-
2	CYN-504	Kinetics and Photochemistry	PCC	3	3	0	0	3	0	25	-	25	50	-
3	CYN-506	Advanced Organic Chemistry-II	PCC	3	3	0	0	3	0	25	-	25	50	-
4	CYN-508	Advanced Laboratory-II	PCC	6	0	0	12	0	12	-	50	-	-	50
5		Program Elective-I	PEC	3	3		0	3	0	25	-	25	50	-
6	HSN-501	Technical Communication		2	2	0	0	2	0	25		25	50	
Total					20									

Program Code: 45 M.Sc. (Chemistry)
Department: CY Department of Chemistry
Year: II

Teaching Scheme					Contact Hours/Week			Exam. Duration		Relative Weight (%)				
S.No.	Sub Code	Courses Title	Sub. Area	Credits	L	T	P	T	P	CWS	PRS	MTE	ETE	PRE
Semester-III (Autumn)														
1		Program Elective-II	PEC	3	3	0	0	3	0	25	-	25	50	-
2		Program Elective-III	PEC	3	3	0	0	3	0	25	-	25	50	-
3		Program Elective-IV	PEC	3	3	0	0	3	0	25	-	25	50	-
4		Program Elective-V	PEC	3	3	0	0	3	0	25	-	25	50	-
5		Program Elective-VI	PEC	3	3	0	0	3	0	25	-	25	50	-
6	CYN-601	Advanced Laboratory-III	PCC	6	0	0	12	0	12	-	50	-	-	50
Total				21										
Semester-IV (Spring)														
1	CYN-604	Seminar	SEM	2	0	0	0	0	0		-	-	100	-
2	CYN-602	Project	PR	12	0	0	0	0	0		-	-	100	-
Total				14										

Total- PCC - 42, PEC - 18, Seminar - 02, Project - 12, Tech. Comm. - 02

Summary				
Semester	1	2	3	4
Subject-wise Total credits	21	20	21	14
Total Credits	76			

Program Elective Courses in Second Semester (MSc Chemistry)

Teaching Scheme					Contact Hrs / week			Exam. Duration hrs.		Relative Weightage(%)				
S. No	Subject Code	Course Title	Sub. Area	Credit	L	T	P	T	P	CWS	PRS	MTE	ETE	PRE
1	CYN-552	Electroanalytical Chemistry	PEC	03	3	0	0	3	0	25	-	25	50	-
3	CYN-562	Enantiomeric Separation	PEC	03	2	0	2/2	2	-	20	20	20	40	
4	CYN-572	Heterocyclic chemistry	PEC	03	3	0	0	3	0	25	-	25	50	-
5	CYN-582	Chemical Applications of Nanoscale Materials	PEC	03	3	0	0	3	0	25	-	25	50	-

Program Electives in Third Semester of MSc Program

Teaching Scheme					Contact Hours Per Week			Exam. Duration hrs.		Relative Weightage(%)				
S. No.	Subject Code	Title	Sub. Area	Credit	L	T	P	T	P	CWS	PRS	MTE	ETE	PRE
1	CYN-611	Molecular Spectroscopy	PEC	03	3	0	0	3	0	25	-	25	50	-
2	CYN-621 (A)	Advanced Analytical Chemistry I	PEC	03	3	0	0	3	0	25	-	25	50	-
3	CYN-631 (A)	Advanced Analytical Chemistry II	PEC	03	3	0	0	3	0	25	-	25	50	-
4	CYN-621 (I)	Inorganic Biochem. and Reaction Mechanism	PEC	03	3	0	0	3	0	25	-	25	50	-
5	CYN-631 (I)	Solid-State Chemistry and its Applications	PEC	03	3	0	0	3	0	25	-	25	50	-
6	CYN-621 (O)	Advanced Organic Chemistry I	PEC	03	3	0	0	3	0	25	-	25	50	-
7	CYN-631 (O)	Advanced Organic Chemistry II	PEC	03	3	0	0	3	0	25	-	25	50	-
8	CYN-621 (P)	Advanced Physical Chemistry I	PEC	03	3	0	0	3	0	25	-	25	50	-
9	CYN-631 (P)	Advanced Physical Chemistry II	PEC	03	3	0	0	3	0	25	-	25	50	-
10	CYN-641	Asymmetric Synthesis	PEC	03	3	0	0	3	0	25	-	25	50	-
11	CYN-651	Crystal and molecular structure	PEC	03	2	0	2/2	2	0	20	20	20	40	
12	CYN-661	Organic Semiconductors: Synthesis and Applications	PEC	03	3	0	0	3	0	25	-	25	50	-
13	CYN-671	Proteins and Polypeptides	PEC	03	3	0	0	3	0	25	-	25	50	-
14	CYN-681	Supramolecular Chemistry	PEC	03	3	0	0	3	0	25	-	25	50	-
15	CYN-691	Frontiers in Inorganic Biochemistry	PEC	03	3	0	0	3	0	25	-	25	50	-