

GUJARAT UNIVERSITY
DESIGN AND STRUCTURE OF CHOICE BASED
CREDIT SYSTEM OF M.Sc. CHEMISTRY

Department	Semester	Course	No. of hours per week				Course credits	
			Name	Lectures	Others	Practicals		Total
CHEMISTRY	1	CHE 401	Inorganic	3	1	--	4	4
		CHE 402	Organic	3	1	--	4	4
		CHE 403	Physical	3	1	--	4	4
		CHE 404	Analytical	3	1	--	4	4
		CHE405PR	Practical (Inorganic + Organic)	--	--	6	4	4
		CHE406PR	Practical (Physical + Analytical)	--	--	6	4	4
		Total	12	4	12	24	24	
	2	CHE407	Inorganic	3	1	--	4	4
		CHE408	Organic	3	1	--	4	4
		CHE409	Physical	3	1	--	4	4
		CHE410	Analytical	3	1	--	4	4
		CHE411 PR	Practical (Inorganic + Organic)	--	--	6	4	4
		CHE412 PR	Practical (Physical + Analytical)	--	--	6	4	4
		Total	12	4	12	24	24	
	3	Inorganic						
		CHE 501 EI	Advanced Inorganic Chemistry	3	1	--	4	4
		CHE 502 EI	Selected topics in Inorganic Chemistry	3	1	--	4	4
		CHE 503 EI	Inorganic Pharmaceutical medicinal Chemistry	3	1	--	4	4
CHE 504 EI CHE 504 EO CHE 504 EP CHE 504 EA		Supramolecular Chemistry Industrial Chemistry Catalysis-1 Modern Separation techniques	3	1	--	4	4	
CHE 505 EI PR		Practicals	--	--	12	8	8	
		Total	12	4	12	24	24	
Organic								
CHE 501 EO		Natural products and biomolecules	3	1	--	4	4	
CHE 502 EO		Medicinal Chemistry	3	1	--	4	4	
CHE 503 EO		Organic Spectroscopy	3	1	--	4	4	
CHE 504 EI CHE 504 EO CHE 504 EP CHE 504 EA		Supramolecular Chemistry Industrial Chemistry Catalysis-1 Modern Separation techniques	3	1	--	4	4	
CHE 505 EO PR	Practicals	--	--	12	8	8		
	Total	12	4	12	24	24		

			Physical					
		CHE 501 EP	Advanced Physical Chemistry	3	1	--	4	4
		CHE 502 EP	Selected topics in Physical Chemistry	3	1	--	4	4
		CHE 503 EP	Polymer Chemistry	3	1	--	4	4
		CHE 504 EI CHE 504 EO CHE 504 EP CHE 504 EA	Choice Based Electives for all Specializations Supramolecular Chemistry Industrial Chemistry Catalysis-1 Modern Separation techniques	3	1	--	4	4
		CHE 505 EP PR	Practicals	--	--	12	8	8
			Total	12	4	12	24	24
			Analytical					
		CHE 501 EA	Industrial Analytical	3	1	--	4	4
		CHE 502 EA	Qualitative Optical Spectroscopic Methods	3	1	--	4	4
		CHE 503 EA	Electro analytical technique	3	1	--	4	4
		CHE 504 EI CHE 504 EO CHE 504 EP CHE 504 EA	Choice Based Electives for all Specializations Supramolecular Chemistry Industrial Chemistry Catalysis-1 Modern Separation techniques	3	1	--	4	4
		CHE 505 EA PR	Practicals	--	--	12	8	8
			Total	12	4	12	24	24
			Inorganic					
		CHE 507 EI	Advanced Inorganic Chemistry	3	1	--	4	4
		CHE 508 EI	Selected topics in Inorganic Chemistry	3	1	--	4	4
		CHE 509 EI	Advanced industrial inorganic chemistry	3	1	--	4	4
		CHE 510 EI CHE 510 EO CHE 510 EP CHE 510 EA	Choice Based Electives for all Specializations Intellectual property rights-Basics Selected topics in Medicinal Chemistry Catalysis-2 Environmental chemistry	3	1	--	4	4
		CHE 511 EI PR	dissertation/industrial training	--	--	12	8	8
			Total	12	4	12	24	24
	4							

			Organic					
		CHE 507 EO	Advanced organic chemistry	3	1	--	4	4
		CHE 508 EO	Advanced organic Synthesis	3	1	--	4	4
		CHE 509 EO	Bio organic Chemistry	3	1	--	4	4
			Choice Based Electives for all Specializations					
		CHE 510 EI	Intellectual property rights-Basics					
		CHE 510 EO	Selected topics in Medicinal Chemistry	3	1	--	4	4
		CHE 510 EP	Catalysis-2					
		CHE 510 EA	Environmental chemistry					
		CHE 511 EI PR	dissertation/industrial training	--	--	12	8	8
			Total	12	4	12	24	24
			Physical					
		CHE 507 EP	Advanced Physical Chemistry	3	1	--	4	4
		CHE 508 EP	Selected topics in Physical Chemistry	3	1	--	4	4
		CHE 509 EP	Polymer chemistry-2	3	1	--	4	4
		CHE(P) 510	Catalysis-2	3	1	--	4	4
		CHE 511 EP PR	dissertation/industrial training	--	--	12	8	8
			Total	12	4	12	24	24
			Analytical					
		CHE 507 EA	Selected topics in analytical chemistry	3	1	--	4	4
		CHE 508 EA	Quantitative Optical Spectroscopic Methods	3	1	--	4	4
		CHE 509 EA	Advanced analytical instrumentation	3	1	--	4	4
			Choice Based Electives for all Specializations					
		CHE 510 EI	Intellectual property rights-Basics					
		CHE 510 EO	Selected topics in Medicinal Chemistry	3	1	--	4	4
		CHE 510 EP	Catalysis-2					
		CHE 510 EA	Environmental chemistry					
		CHE 511 EA PR	dissertation/industrial training	--	--	12	8	8
			Total	12	4	12	24	24

