

Department: Chemistry

Name of the Course: M.Sc Chemical Sciences

Semester	Hard-core Courses			Soft-core Courses		
	Course	Name of the Course	Credits	Course	Name of the Course	Credits
I	CHEM 400	Chemistry Laboratory VII	3	PHYS 434	Electronic Devices, Circuits and Microprocessors	3
	CHEM 403	Advanced Inorganic Chemistry I	3	PHYS 435	Numerical Methods and MATLAB	3
	CHEM 423	Advanced Organic Chemistry I	3		A Course from other Schools	3
	CHEM 4443	Symmetry and Group Theory in Chemistry	3			
	CHEM 463	Quantum Chemistry I	3			
II	CHEM 410	Chemistry Laboratory VIII	3	PHYS 434	Electronic Devices, Circuits and Microprocessors	3
	CHEM 404	Advanced Inorganic Chemistry II	3	PHYS 435	Numerical Methods and MATLAB	3
	CHEM 424	Spectroscopic Identification of Organic Compounds	3		A Course from other Schools	3
	CHEM 444	Statistical Thermodynamics and Reaction Dynamics	3			
	CHEM 463	Quantum Chemistry I	3			
III	CHEM 500	Advanced Laboratory Techniques	3	CHEM 527	Advanced Organic Chemistry III	3
	CHEM 503	Advanced Inorganic Chemistry III	4		A course from other Schools	3
	CHEM 524	Advanced Organic Chemistry II	4			
	CHEM 544	Spectroscopy : theory and Applications	4			
IV	CHEM 580	Project Work	4	CHEM 504	Inorganic Photochemistry	3
	CHEM 582	Comprehensive Evaluation / Viva	2	CHEM 506	Ligand Field Theory	3
				CHEM 508	Supra – Molecular Chemistry	3
				CHEM 524	Natural Products Chemistry	3
				CHEM 528	Asymmetric synthesis	3
				CHEM 542	Advanced Magnetic Resonance and Solid State Chemistry	3
				CHEM 546	Electro Analytical Techniques	3
				CHEM 548	Nano-Materials and Photo – Catalysis	3
					A Course from other Schools	3