

Department of Chemistry
Academic Course Description for Students
Postgraduate Study

MSc Biochemistry							
First Course				Second Course			
Subject	Hours			Subject	Hours		
	THEO	Pract.	Units		THEO	Pract.	Units
Advanced Biochemistry	2	-	2	Molecular Biochemistry	2	-	2
Advanced Physical Chemistry	2	-	2	Biostatistics	2	-	2
Advanced Analytical Chemistry	2	-	2	Clinical Biochemistry	2	-	2
Advanced Organic Chemistry	2	-	2	Spectroscopy	2	-	2
Advanced Inorganic Chemistry	2	-	2	Enzymology and Its Applications		-	2
English	2	-	1	English	2	-	1
				Research Writing Methods	1	-	fulfilled
				Seminar	1	-	fulfilled

PhD Biochemistry							
First Course				Second Course			
Subject	Hours			Pract.	Hours		
	THEO	Pract.	Units		Subject	Hours	Pract.
Advanced Physical Chemistry	3	-	3	Advanced Metabolism	3	-	3
Advanced Inorganic Chemistry	3	-	3	Advanced Immunology	3	-	3
Advanced Biochemistry	3	-	3	Oxidative Stress	3	-	3
Advanced Analytical Chemistry	3	-	3	Proteins	3	-	3
Advanced Organic Chemistry	3	-	3	English	2	-	1
English	2	-	1	Research Writing Methods	1	-	Fullfilled
Seminar	1	-	fulfilled				

Msc Inorganic Chemistry

First course				Second course			
Subject	Hours			Subject	Hours		
	THEO	Pract.	Units		THEO	Pract.	Units
Advanced Biochemistry	2	-	2	Inorganic Biochemistry	2	-	2
Advanced Physical Chemistry	2	-	2	Mechanism of Inorganic Reactions	2	-	2
Advanced Analytical Chemistry	2	-	2	Chemistry of f-block elements	2	-	2
Advanced Organic Chemistry	2	-	2	Spectra of inorganic compounds	2	-	2
Advanced Inorganic Chemistry	2	-	2	English	2	-	1
English	2	-	1	Research Writing Methods	1	-	fulfilled
				Seminar	1	-	fulfilled

PhD Inorganic Chemistry

First course				Second course			
Subject	Hours			Subject	Hours		
	THEO	Pract.	Units		THEO	Pract.	Units
Advanced Physical Chemistry	3	-	3	Preparation of Coronal Cyclic Complexes for Transition Elements	3	-	3
Advanced Inorganic Chemistry	3	-	3	Spectroscopy and Thermal Analysis Techniques for Inorganic Compounds	3	-	3
Advanced Biochemistry	3	-	3	Inorganic Chemistry of Aqueous Solutions	3	-	3
Advanced Analytical Chemistry	3	-	3	Characterization of Charge Transfer in Organic Compounds	3	-	3
Advanced Organic Chemistry	3	-	3	English	2	-	1
English	2	-	1	Research Writing Methods	1	-	fulfilled
Seminar	1	-	fulfilled				

MSc Analytical Chemistry

First course				Second course			
Subject	Hours			Subject	Hours		
	THEO	Pract.	Units		THEO	Pract.	Units
Advanced Biochemistry	2	-	2	Advanced Analytical Interactions	2	-	3
Advanced Physical Chemistry	2	-	2	Separation Methods/ Chromatography	2	-	3
Advanced Analytical Chemistry	2	-	2	Environmental Chemistry and Pollution	2	-	2
Advanced Organic Chemistry	2	-	2	Chemical statistics	2	-	2
Advanced Inorganic Chemistry	2	-	2	Advanced Atomic Spectrum	2	-	2
English	2	-	1	English	1	-	1
				Seminar	1	-	fulfilled
				Research Writing Methods	1	-	fulfilled

MSc Organic Chemistry

First course				Second course			
Subject	Hours			Subject	Hours		
	THEO	Pract.	Units		THEO	Pract.	Units
Advanced Biochemistry	2	-	2	Heterocyclic Compounds	2	-	3
Advanced Physical Chemistry	2	-	2	Chemistry of Natural Products	2	-	3
Advanced Analytical Chemistry	2	-	2	Stereo-organic Chemistry	2	-	2
Advanced Organic Chemistry	2	-	2	Organic Polymer Chemistry and Its Applications	2	-	2
Advanced Inorganic Chemistry	2	-	2	Spectra of organic Compounds and Their Applications	2	-	2
English	2	-	1	English	1	-	1
				Seminar	1	-	fulfilled
				Research Writing Methods	1	-	fulfilled

MSc Physical Chemistry

First course				Second course			
Subject	Hours			Subject	Hours		
	THEO	Pract.	Units		THEO	Pract.	Units
Advanced Biochemistry	2	-	2	Corrosion Chemistry	2	-	3
Advanced Physical Chemistry	2	-	2	Surface Chemistry	2	-	3
Advanced Analytical Chemistry	2	-	2	Photochemistry	2	-	2
Advanced Organic Chemistry	2	-	2	Heterogeneous Catalysis	2	-	2
Advanced Inorganic Chemistry	2	-	2	Nanochemistry	2	-	2
English	2	-	1	English	1	-	1
				Seminar	1	-	fulfilled
				Research Writing Methods	1	-	fulfilled