

Department of chemistry
Academic Course Description
General Chemistry Branch

First year							
First semester				Second semester			
Subject	Hours			Subject	Hours		
	THEO	Pract.	Units		THEO	Pract.	Units
Qualitative Analytical Chemistry	2	2	3	Volumetric Analytical Chemistry II	2	2	3
Inorganic Chemistry I	2	-	2	Inorganic Chemistry II	3	-	3
Physics (Electricity and Magnetic)	2	2	3	Statistics	2	-	2
Mathematics	2	-	2	Cytology	2	2	3
Arabic	2	-	2	Computer Science I	-	2	1
Safety & Security in Chemical lab	2	-	2	English I	2	-	2
Human Rights	1	-	1	Freedom and Democracy	1	-	1
				Geology	2	-	2

Second year

First semester				Second semester			
Subject	Hours			Subject	Hours		
	THEO	Pract.	Units		THEO	Pract.	Units
Gravimetric Analytical Chemistry I	3	2	4	Gravimetric Analytical Chemistry II	3	2	4
Inorganic Chemistry III	2	2	3	Inorganic Chemistry IV	2	2	3
Thermodynamic	2	2	3	Solution	2	2	3
Organic Chemistry I	2	2	3	Organic Chemistry II	2	2	3
Mathematics in Chemistry	2	-	2	Solutions of Differential Equations	2	-	2
Computer Science II	-	2	2	Computer Science IV	-	2	1
Woman and Law	1	-	1	Civil Leaderships	1	-	1
				English IV	2	-	2

Third year

First semester				Second semester			
Subject	Hours			Subject	Hours		
	THEO	Pract.	Units		THEO	Pract.	Units
Organic Chemistry III	2	2	3	Organic chemistry IV	3	2	4
Coordination Inorganic Chemistry I	2	2	3	Coordination Inorganic Chemistry II	2	2	3
Kinetic Chemistry	2	2	2	Electrochemistry	2	2	3
Biochemistry I	2	2	3	Biochemistry II	2	2	3
Principle of Industrial Chemistry	2	-	2	Chemical Industries	2	-	2
Methods of Research	1	-	1	Optional (environmental pollution)	2	-	2
Optional (Biotechnologies)	2	-	2				
English	2	-	2				

Fourth year

First semester				Second semester			
Subject	Hours			Subject	Hours		
	THEO	Pract.	Units		THEO	Pract.	Units
Instrumental Analysis I	3	2	4	Instrumental Analysis II	3	2	4
Polymer Chemistry	3	2	4	Spectroscopy	3	-	3
Quantum Chemistry	3	-	3	Petrochemistry	3	2	4
Metabolism I	2	2	3	Metabolism II	2	2	3
Organic Identification	1	2	2	Optional (Physical and mechanical properties of polymers)	2	-	2
Optional (Bio-separation)	2	-	2	Spectral Identification	1	2	2
English	2	-	2	Research Project	2	-	2
				Organometallic Chemistry	2	-	2