

**Chemistry Department  
Subjects for Diploma,  
Master and PhD Exam  
(2023)**

## **Chemistry Department Subjects for Diploma Exam (2023)**

- 1) Analytical Chemistry**
- 2) Organic chemistry**
- 3) Inorganic chemistry**
- 4) Physical chemistry**
- 5) Biochemistry**

## **Chemistry Department Subjects for Master Exam (2023)**

- 1) Analytical Chemistry**
- 2) Organic chemistry**
- 3) Inorganic chemistry**
- 4) Physical chemistry**
- 5) Biochemistry**
- 6) Polymer chemistry**

## **Chemistry Department Subjects for PhD Exam (2023)**

### **Analytical Chemistry ( for PhD Exam)**

- 1-calculations used in analytical chemistry**
- 2-Quantitative optical spectroscopic methods**
- 3-separation methods**
- 4- Inorganic Chemistry**
- 5- Organic Chemistry**
- 6- Physical Chemistry**

### **Biochemistry ( for PhD Exam)**

- 1- General Biochemistry**
- 2- Metabolism**
- 3- Clinical biochemistry**

- 4- Analytical Chemistry
- 5- Organic Chemistry
- 6- Inorganic Chemistry

### **Inorganic Chemistry ( for PhD Exam)**

- 1. Chemistry of transition elements
- 2. Coordination chemistry
- 3. Organometallic chemistry
- 4-Analytical Chemistry
- 5- Organic Chemistry
- 6- Physical Chemistry

### **Organic chemistry ( for PhD Exam)**

- 1. Aliphatic Hydrocarbons
- 2. Aromatic Hydrocarbons
- 3. Stereochemistry
- 4. 4-Analytical Chemistry.
- 5. Inorganic Chemistry.
- 6. Physical Chemistry

### **Physical Chemistry ( for PhD Exam)**

- 1- Thermodynamics
- 2- Chemical Kinetics
- 3- Electrochemistry
- 4- Analytical Chemistry
- 5- Inorganic Chemistry
- 6- Organic Chemistry

### **Polymer chemistry ( for PhD Exam)**

- 1- Classification of polymer and Mechanism of Polymerization
- 2- Polymerization technique
- 3- Rubber
- 4- Analytical Chemistry
- 5- Inorganic Chemistry
- 6- Organic Chemistry