



School of pharmacy

Department Medicinal Chemistry

Course title: General Chemistry

Credit (Practical): 1

Prerequisite: -

Course lecturers: Dr. Asadi

Responsible lecturer: Dr. Asadi

- 1- Practical Exam **30% of whole mark**
- 2- Exercises: **25% of whole mark**
- 3- Comprehensive Written Examination: **45% of whole mark**

Course Description:

Course objectives:

Chemistry deals with observable changes caused by unobservable atomic-scale events, which means a size gap of Chemistry contains the molecular nature of matter and change mind-boggling proportions must be understood.

Student Learning Objectives:

The students visualize chemical events on the molecular scale. The problem-solving approach encourages students to first plan a logical approach to a problem, and only then proceed to solve it mathematically

Students are expected to:

Understand the basic concepts of chemistry the mass laws and the mole concept to apply the amounts of substances involved in a reaction. Atomic properties, and the periodic trends and types of bonding derived from them, as molecular structure determining

**Course title: General Chemistry lab course
(Saturday, 13-17)**

	Subject	Lecturer	Date
1	Basic Laboratory Operations and safety (No bench work)	Dr. Asadi	Saturday. 1 Sep. (8 Mehr)
2	Preparation of solution and Dilution	Dr. Asadi	Saturday. 7 Oct. (15 Mehr)
3	Preparation of buffer solution	Dr. Asadi	Saturday. 14 Oct. (22 Mehr)
4	Measuring the density and viscosity of liquids	Dr. Asadi	Saturday. 21 Oct. (29 Mehr)
5	Qualitative Analysis of cation; Na ⁺ , K ⁺ , NH ₄ ⁺	Dr. Asadi	Saturday. 28 Oct. (6 Aban)
6	Qualitative Analysis of cation; Mg ²⁺ , Ca ²⁺ , Cu ²⁺	Dr. Asadi	Saturday. 4 Nov. (13 Aban)
7	Qualitative Analysis of common Anions	Dr. Asadi	Saturday. 11 Nov. (20 Aban)
8	Preparation of H ₂ O ₂ and study of its properties	Dr. Asadi	Saturday. 18 Nov. (27 Aban)
9	Factors Affecting Reaction Rates	Dr. Asadi	Saturday. 25 Nov. (4 Azar)
10	Preparation of a double salt and a complex and their comparison with each other	Dr. Asadi	Saturday. 2 Dec. (11 Azar)
11	Hardness of water	Dr. Asadi	Saturday. 9 Dec. (18 Azar)
12	Preparation of bleach and study of its properties	Dr. Asadi	Saturday. 23Dec. (25 Azar)
13	Molar solubility, common ion effect	Dr. Asadi	Saturday. 30 Dec. (2 Day)
14	Final Exam (Theory and Practical)	-----	Saturday. 6 Jan. (9 Day)

The contribution of the grade of the professors of the course

professors	Lab report	Practical final Exam	Theoretical Final Exam	Sum
Dr Asadi	5	6	9	20