

General Info

Objectives of the Course

The aim of the course is to teach the students the properties of substances, chemical laws, structure of atoms, periodic table, chemical calculations, chemical bonding, states of matter, gases, liquids, solids, solutions, acids and bases.

Course Contents

Matter and characteristics; Chemistry laws; The structure of the atom; Elements and compounds; Naming of the components; Chemical reactions; Reaction stoichiometry; Periodic table; Chemical bonds, chemical bond theories; Molecular forces and liquids, additives, gases; Key features, presentation units, features and physical characteristics; Acids and bases.

Recommended or Required Reading

Textbook, classroom, projector Textbook / Supplementary Book 1. General Chemistry 1: Principles and Modern Applications; Petrucci - Herring - Madura; Palme Publishing House. 2. Chemistry I and II; Kenneth W. Whitten, Raymond E. Davis, M. Larry Peck, George G. Stanley; Nobel Publishing, 2014. 3. Basic University Chemistry, E. Erdik and Y. Sarıkaya, Gazi Bookstore, 2004.

Planned Learning Activities and Teaching Methods

Lecture, Discussion, Question and Answer, Problem solving

Instructor's Assistants

Not exist.

Presentation Of Course

Face to face

Dersi Veren Öğretim Elemanları

Dr. Öğr. Üyesi Şeyda Çiğdem Özkan Köç

Program Outcomes

1. Understands the basic issues of chemistry and has the ability to interpret.
2. Have sufficient background in mathematics and physics and gain the ability to apply their knowledge to chemistry.
3. Students will be able to solve the problems in the field of chemistry.
4. Gain theoretical knowledge and skills to interpret what they have learned.
5. Learns basic chemistry subjects and interprets the phenomena encountered in daily life.
6. To be able to become aware of the latest developments in the world of science, to follow and to interpret them.

- P.O. 30 :** Temel mesleki kavram ve tanımları ile temel mesleki dil bilgisi yeterliklerini kazanır.
- L.O. 1 :** Kimyanın temel konularını kavrar ve yorumlama becerisine sahip olur.
- L.O. 2 :** Matematik ve fizikte yeterli altyapıya sahip olur ve bilgilerini kimyaya uygulayabilme yeteneđi elde eder.
- L.O. 3 :** Kimya alanındaki problemleri çözmeye becerisine sahip olur.
- L.O. 4 :** Teorik bilgi edinme ve öğrendiklerini yorumlama becerisi kazanır.
- L.O. 5 :** Temel kimya konularını öğrenir ve günlük hayatında karşılaştığı olguları yorumlayabilir.
- L.O. 6 :** Bilim dünyasındaki güncel gelişmeleri merak etme, takip etme ve yorumlama becerisine ve bilincine ulaşır.