



HASAN KALYONCU UNIVERSITY
Faculty of Engineering
Course Description Form

COURSE: General Chemistry				
CODE: CHEM101	SEMESTER: FALL			
LANGUAGE: ENGLISH	TYPE: COMPULSORY			
PRE-REQUISITES: - CO-REQUISITES: -	THEORY	PRACTICAL	CREDIT	ECTS
WEEKLY HOURS: 4	4	0	4	6

CONTENT OF THE COURSE:

This is an introduction course to Civil Engineering profession that provides students with primary principles and fundamental concepts of Civil Engineering discipline. This course includes some general introductory information on major specialty areas of Civil Engineering, historical perspectives, current status, and future challenges of the discipline and an introduction to the profession and its applications.

OBJECTIVE OF THE COURSE:

The objective of the course is to provide knowledge on the basic concept of the chemistry, atomic structure, periodic system, chemical bonds, gases and kinetic theory, solids, liquids.

WEEKLY SCHEDULE AND PRE-STUDY PAGES

Week	Topics
1	Introduction; matter and measurement
2	Atoms, molecules and ions
3	Atoms, molecules and ions
4	Stoichiometry; calculation with chemical formulas and equations
5	Aqueous reactions and solution stoichiometry
6	The periodic Table, and properties
7	The basic concept of bonding
8	Mid Term Exam
9	Gases
10	Intermolecular forces; Liquids and solids
11	Intermolecular forces; Liquids and solids
12	Chemical Equilibrium
13	Properties of solutions
14	Thermochemistry

- **TEXTBOOK:** Theodore L. Brown; H. Eugene LeMay Jr. Reno; Bruce E. Bursten; Catherine J. Murphy; Patrick Woodward; Chemistry: The Central Science; 11th Edition, Pearson Education, Inc. 2009

REFERENCE BOOKS

- Petrucci R.H. and Harwood W.S. General Chemistry: Principles and Modern Application. 7th Edition Prentice Hall, 1997

- John McMurry, Robert C. Fay. Chemistry. Simon & Schuster, 1998.

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11
LO1	3	3	0	0	0	0	0	0	0	0	0
LO2	3	3	0	0	0	0	0	0	0	0	0
LO3	3	3	0	0	0	0	0	0	0	0	0
PO: Program Outcomes LO: Learning Outcomes Values: 0: None 1: Low 2: Medium 3: High											

INSTRUCTOR(S):	Prof. Dr. Hüseyin BOZKURT
FORM PREPARATION DATE:	22.05.2019

LEARNING OUTCOMES OF THE COURSE:
<p>LO1: Getting sufficient knowledge of mathematics, science and engineering discipline</p> <p>LO2: To provide knowledge on the basic concept of chemistry, chemical compounds and reaction.</p> <p>LO3: To provide knowledge on the liquids, solids and gases</p>

CONTRIBUTION OF THE COURSE TO VOCATIONAL EDUCATION
Students learn about elements, compounds and chemical reactions with the course they have taken.