

20846 KIM 111L GENERAL CHEMISTR-1 LABORATORY, SPRING SEMESTER OF 2019-2020 ACADEMIC YEAR

Course hour and location : Pazartesi 11:³⁰-13:³⁰

Lecturer : Prof. Dr. Makbule Burkut Koçak

e-mail : mkocak@itu.edu.tr

TOPICS:

1. Introduction to General chemistry Laboratory and Security Exam
2. Measurements and Density
3. Identification of Common Chemicals
4. Le Chatelier's Principle in iron thiocyanate Equilibrium
5. Determination of Hydration Water in a Compound
6. Covalent Bonding and VSEPR Theory
7. Determination of the reaction stoichiometry
8. A Kinetic Study of an iodine Clock Reaction
9. Determination and Removal of Hardness of Water
10. Determination of pH with Colorimetric Method
11. Determination of Acetic Acid Content of Vinegar: An Acid-Base Titration

Experiment 3 and Experiment 6 will not be carried out. Other experiments will be carried out in order of numbers.

Lesson Book: General Chemistry Laboratory Booklet

Laboratory:

Midterm (Reports % 30 + Midterms (quiz) % 25), %5 Security exam, Exam % 40

Semester Achievement Requirement (VF Requirement)

Students are required to have at least 50 out of 100 points as an average of midterm and lab work. Otherwise, the student will be given VF. Those with points 50 and above will be graded starting from DD.

The date of the exam: 11 May, 2020 (Monday, 11:³⁰-13:³⁰)