

**KIM 114L (CRN: 20850)**  
**GENERAL CHEMISTRY II LABORATORY, SPRING SEMESTER OF 2019-2020**  
**ACADEMIC YEAR**

Course hour and location : Friday, 09:<sup>30</sup>-12:<sup>30</sup>

Lecturer : Prof. Dr. Esin HAMURYUDAN

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**EXPERIMENTS:**

1. ACIDS, BASES, AND THEIR SALTS
2. PREPARING BUFFERS AND BUFFER CAPACITY
3. DETERMINATION OF A SOLUBILITY PRODUCT CONSTANT
4. SYNTHESIS AND FEATURES OF A SOAP
5. ANALYSIS OF THE CATIONS IN THE GROUP I OR THE “CHLORIDE GROUP”  
(Ag<sup>+</sup>, Pb<sup>2+</sup>, Hg<sub>2</sub><sup>2+</sup>)
6. GROUP II: THE HYDROGEN SULFIDE GROUP
7. GROUP III: THE AMMONIUM SULFIDE GROUP
8. GROUP IV CATIONS
9. THE IDENTIFICATION REACTIONS OF COMMON ANIONS AND THEIR SALT
10. PREPARATION OF [Co(NH<sub>3</sub>)<sub>5</sub>ONO]Cl<sub>2</sub>- LINKAGE ISOMERISM

**Experiment 1, Experiment 4 and Experiment 10 will not be carried out. Other experiments will be carried out in order of numbers.**

**Lesson Book:** General Chemistry Laboratory Booklet

**Laboratory scoring account: 30% Lab. activities + 20% Reports + 50% Exam**

**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: 15 May, 2020 (Friday, 09:<sup>30</sup>-12:<sup>30</sup>)**