

2023- 2024 Fall Semester CHEM 371 Instrumental Analysis Laboratory
Mon: 08:30- 10:30(Section-1) /10:30- 12:30(Section-2)

EXPERIMENT NUMBER					
DATE OF EXPERIMENT	Group 1	Group 2	Group 3	Group 4	Group 5
2 nd October 8:30 and 10:30	First meeting and General information				
9 th MON - OCTOBER	Exp. 1	Exp. 2	Exp. 3	Exp. 4	Exp. 5
16 ^d MON -OCTOBER	Exp. 2	Exp. 3	Exp. 4	Exp. 5	Exp. 1
23 th MON - OCTOBER	Exp. 3	Exp. 4	Exp. 5	Exp. 1	Exp. 2
30 th MON - OCTOBER	Exp. 4	Exp. 5	Exp. 1	Exp. 2	Exp. 3
6 th MON - NOVEMBER	Exp. 5	Exp. 1	Exp. 2	Exp. 3	Exp. 4
13 th MON -NOVEMBER	MAKE-UP				
20 th MON -NOVEMBER	Exp. 6	Exp. 7	Exp. 8	Exp. 9	Exp. 10
27 th MON - NOVEMBER	Exp. 7	Exp. 8	Exp. 9	Exp. 10	Exp. 6
4 th MON -DECEMBER	Exp. 8	Exp. 9	Exp. 10	Exp. 6	Exp. 7
11 th MON -DECEMBER	Exp. 9	Exp. 10	Exp. 6	Exp. 7	Exp. 8
18 th MON -DECEMBER	Exp. 10	Exp. 6	Exp. 7	Exp. 8	Exp. 9
25 nd MON- DECEMBER	MAKE-UP				
8 th MON - DECEMBER	MAKE-UP				

NUMBER	NAME OF THE EXPERIMENT	ASSISTANT INSTRUCTOR
1	Neutralization Titrations “by Conductometric Measurement”	Öğr.Gör.Dr. Kübra ÖZKAN HÜKÜM
2	Ultraviolet-Visible Spectroscopy “Quantitative Analysis of Single and Binary compounds: Mn/Cr”	Araş. Gör. Görkem LİMAN
3	Atomic Absorption Spectroscopy (AAS)- “Determination of Iron (Fe) by Flame AAS”	Öğr.Gör. Argun TÜRKER
4	Infrared Spectroscopy (IR) “Infrared Absorption Spectroscopy”	Öğr.Gör. Dr.Doğukan DOYDUK
5	Chromatographic Analysis- Analysis by Gas Chromatography (GC)- Ethanol in Cologne.	Öğr.Gör.Sinan ÖREN
6	Neutralization Titrations “by Potentiometric Measurement”	Araş. Gör.Görkem LİMAN
7	Chromatographic Analysis Liquid Chromatography-High Performance Liquid Chromatography-HPLC- Caffeine in Tea.	Öğr.Gör. Sinan ÖREN
8	Flame Emission Spectroscopy (FES) “Determination of Potassium”	Öğr.Gör. Argun TÜRKER
9	Electroanalytical Methods- Polarography- Voltammetry “Ferricyanide determination”	Öğr.Gör. Dr.Kübra ÖZKAN HÜKÜM
10	Nuclear Magnetic Resonance Spectroscopy (¹ H NMR).	Öğr.Gör. Dr. Doğukan DOYDUK

RULES TO BE APPLIED IN THE “CHEM 371 INSTRUMENTAL ANALYSIS LABORATORY”

1. Students will be given a written exam (quiz exam) before the experiment. Students who get less than 40 in the quiz exam cannot do that experiment and have to make up for it.
2. Students who do not come to the quiz-exam because they have an excuse, or who fail in the quiz exam, has to complete them in the Make-up week.
3. Each student, in the case of absenteeism and failure, is granted a maximum of 3 make-up. A student who has 4 make-up is considered "unsuccessful" by” CHE 371 instrumental Analysis"
4. The student will deliver the Experiment Report, one week after their experimental work. Laboratory reports are prepared manually (handwritten) and individually.
5. At the end of the semester, a student must complete and be successful from all the Experiments.
6. The laboratory grade is evaluated as a mid-term exam grade of CHE 371 instrumental Analysis.
7. Laboratory achievement average = Quiz exam grade average x 50% + Average of reports grades x 50%.
8. The grade for the course is calculated as follows:

$$\text{LAB. 30\% + MID-TERM (for lecture) 30\% + Final Exam (for lecture) 40\% = 100\%}$$

9. Students are not allowed into the laboratory without a lab coat, and all laboratory safety rules must be followed.

Responsible lecturer,

Prof. Dr. Recai İNAM