

Course Code and Name : KM 380 Chemical Engineering Lab. I
Coordinator: Prof.Dr. N.Alper TAPAN **Room No:** 545
e-posta : mtelli@gazi.edu.tr
Course schedule : Friday : 13:30-17:20

Course Catalog :

KM 380 - Chemical Engineering Lab. I (special evaluation)

Application physical chemistry, fluid mechanics and heat transfer principles and laboratory practices. Evaluation of experimental data and results.

Suggested Prerequisite : KM 222, KM 244

Schedule	Week
General introduction	1
Experiments	10
Complimentary experiments	2

Aims:

- Acquisition of ability to apply background knowledge about fluid mechanics, physical chemistry and heat transfer by experiments.
- Acquisition of experience by performing and designing experiments independently .
- Analysis of experimental data and learning methods of evaluation.
- Application and instruction of safety rules during experiments in the lab.
- To gain experince about group study.
- To gain written communication skills by preparation of lab reports.

General rules, Evaluation and Laboratory Schedule is given in the attachements.

Academics : N.Saraçoğlu, Ç.Güldür, İ.Tükenmez, A.Altınten, M. Doğan, C.Cabbar, N.Dilsiz, S.Yaşyerli, N.A.Tapan, D.Varışlı, M.Okur, M Taşdemir, D.D.Eslek Koyuncu, F. Turgut, L.Nuralın.

General Laboratory Rules

1. It is compulsory to wear lab coat and lab goggles during experiments. Those who do not obey this rule will not be permitted to the lab.
2. Every student should be well prepared in advance for the experiment to be performed. It is compulsory for the student to consult to the instructor in advance before the experiment. It is the student's responsibility to make theoretical research and to learn experimental technique and data acquisition.
3. Before the experiment by written and oral quizzes , the preparation of the student is evaluated. In addition, the performance of the student during the experiment is also evaluated separately.
4. Those who can not pass preevaluation before experiments should perform their experiments during the compensation week shown in the laboratory schedule. If the student do not attend the experiment without any excuse can not perform the experiment during the compensation week. Students can only repeat one experiment. Those who have more than one experiment left for compensation are graded as unsuccessful. If the student can not succeed the experiment during compensation week he/she is graded as unsuccessful.
5. Laboratory reports should be prepared in groups and are submitted to instructor 2 weeks after the day of the experiment. Laboratory reports should be prepared according to the laboratory report format. Reports should be prepared with a 12 font size in Times New Roman and the line spacing in the report should be 1.5. Besides the report format , students should consult the instructor for additional remarks and suggestions.
6. If the laboratory report is not acceptable by the responsible instructor, laboratory report will be graded as ZERO.
7. If the laboratory report of a performed experiment is not submitted, the laboratory report of the group will be graded as ZERO.
8. For a student to succeed in the course, the prerequisite is to perform all the experiments. Every week each student should sign the absent sheet and each student should attend the two weeks of experiment.
9. If near identical reports are submitted by different groups, the lab report will be graded as ZERO automatically.
10. Evaluation of laboratory grades

Qualification exam before laboratory and performance	: %20
Midterm	: %10
Report	: % 35
Final exam	: % 35
