

Syllabus Chem 305 Instrumental Analysis

Prof. Dr. Şerife H. Yalçın

Office: Math Building No: 110, Ext:7624

Lab: MBG building no: K05

Hours: Tuesday: 11:45 - 12:30 Classroom-D7

Thursday: 10:45 - 12:30 Classroom-D7

Text to follow: any one of the following editions;

“Instrumental methods of Analysis”, 5th ed. Skoog, Holler, Nieman

“Instrumental methods of Analysis”, 6th ed. Holler, Skoog, Crouch

“Instrumental methods of Analysis”, 7th ed. Holler, Skoog, Crouch

Course notes: on <http://www.iyte.edu.tr/~serifeyalcin/chem305.htm>

Course Objective: To familiarize the student with the recent optical spectroscopic analysis techniques and instruments in modern Analytical Chemistry.

Topics to be covered during the semester:

- Optical Components of Spectrometers
- Optical Sources, Transducers, and Measurement Systems
- Atomic Spectroscopy instruments, AAS, AES, AFS
- Molecular Spectroscopy instruments, UV_Vis, IR, Luminesans Spectrophotometry

Grading and Exams: During the semester, there will be (2) written MT and (1) final exam. Exams may be in **open-book** and/or **closed-book** formats.

Course Grading and Examination Dates:

Mid Term I- October 31st, 2024

Mid Term II- December 5th, 2024

Final to be determined

Assignments:

Problems from the “end of chapter questions” are due after each chapter is covered in the classroom.