Syllabus 541 Chem 2022 / 1443 A.H. Sunday, 1-3 pm

Course Director: Fatmah Alasmary

CHEM 541: Organic Spectroscopy 2(2+0):

Applications of Spectroscopy: IR, NMR, MS, UV in the identification of organic compounds. Various examples of organic multi - steps preparations and the use of spectroscopy for the identification of its products.

Course Description

Topic	No. of weeks	Contact hours
Definition of electromagnetic	2	4
radiation ultraviolet and		
visible spectra		
Infrared spectra	2	4
Nuclear magnetic resonance	3	6
spectra		
Mass spectra	2	4
Structure elucidation by joint	2	4
application of UV, IR, NMR,		
and Mass spectroscopy		

Schedule of Assessment Tasks for Students during the Semester

	Activity	Week	Grade
1	Mid 1	7	20
2	Mid 2	9	20
3	Assignments	-	20
4	Final exam	-	40

Students MUST pass all parts and must gain 70 % out of 100 to pass the course.

References and text books:

- 1. Pavia, D. L.; Lampman, G. M.andKriz, G. S,Introductio to Spectroscopy, 4 th Edition (2009)
- 2. Silverstien, R. M. and Webster, F. X, Spectroscopic Identification of organic Compounds,7 th Edition (2005)