

بسم الله الرحمن الرحيم

Republic of Iraq

The Ministry Of Higher Education
& Scientific Research



University: Baghdad
College: Science for Women
Department: Chemistry
Stage : Fourth
Lecturer name: Dr. Abdel-Amir M. Fenjan
Qualification: Assistant Professor

Place of work

Syllabus Form

Instructor Name	Asst.Prof.Dr.Abdel-Amir Mutlak Fenjan				
E-mail	amirfenjan@yahoo.com				
Course Title	Organic Chemistry				
Course Coordinator	Organic Spectroscopy				
Course Objectives	Identification of the functional groups and structures of Organic , Organometallic compounds .				
Course Description	It was including identification of various organo functional groups using various physical techniques like :FT-IR , ¹ H-NMR , ESR , Mass spectra and microelemental analysis C.H.N.S .				
Textbook	Identification of Organic comp. by Silverstein , 4 th edition , 1987 .				
References	1. Elementary Organic Spectroscopy , Y.R. Sharma , 2010 2. Fundamental of molecular spectroscopy by Banwell , 1972				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	As(18%)	As(20%)	As(2%)	-	As(60%)
General Notes	Type here general notes regarding the course				

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Course Weekly Outline

Week	Date	Topes Covered	Lab. Experiment Assignments	Notes
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
Half – year break				
17		Introduction into I.R spectrum	Electromagnetic Spectrum	
18		Stretching and bending vibrations	Fourier transform infrared spectroscopy (FTIR)	
19		Linear and non-linear molecules		
20		Wave number for functional groups and applications		
21		Introduction into ¹ H-NMR spectrum	Unknown	
22		Chemical shift , J-J coupling	Unknown	
23		Splitting pattern systems	Unknown	
24		Electrical quadruple moment system	Unknown	
25		Applications	Exam	
26		Introduction into ESR spectrum	Unknown	
27		Applications	Unknown	
28		Introduction into mass	Unknown	

		spectrum		
29		Evaluation %M+1 , %M+2	Unknown	
30		Application and C.H.N. analysis	Exam	
31		Exam		

Instructor Signature:

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Asst.Prof.Dr. Abdel-Amir M. Fenjan

Prof. Dr. Ahlam Mohammad Farhan