بسم الله الرحمن الرحيم

Republic of Iraq

The Ministry Of Higher Education

& Scientific Research

University: Baghdad

College: Science for Women

Department: chemistry

Stage: Fourth year

Lecturer name: molecular spectroscopy

Qualification: PhD in physical chemistry

Syllabus Form

Instructor Name	Dr. Sameer H. Kareem				
E-mail	Sameer-k-1960@yahoo.com				
Course Title	Molecular spectroscopy				
Course Coordinator	Molecular spectroscopy				
Course Objectives	To teach the principles of molecular spectroscopy				
Course Description	The course includes, the electromagnetic radiation and the rotational ,vibrational,electronic , NMR, and ESR spectroscopy				
Textbook	A. A. Alhassum, "Physical Chemistry" first edition, (1986) (in Arabic)				
References	C. N. Banwell, "Fundamentals of molecular spectroscopy" second edition, McGraw-Hill, (1972).				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	As(40%)	-----	----	----	As(60%)
General Notes					

Republic of Iraq

The Ministry Of Higher Education

& Scientific Research

University:

College:

Department:

Stage:

Lecturer name:

Qualification:

Place of work

Course Weekly Outline

Week	Date	Topes Covered	Lab. Experiment Assignments	Notes

Half – year break				
1	**18/2/2016**	Electromagnetic Radation		
2	**25/2/2016**	Microwave spectroscopy : Di atomic molecules		
3	**3/3/2016**	Microwave spectroscopy: poly atomic molecles		
4	**10/3/2016**	Vibration spectroscopy: harmonic oscillation		
5	**17/3/2016**	Vibration spectroscopy: An –harmonic oscillation		
6	**24/3/2016**	Application of IR		
7	**31/3/2016**	Examination		
8	**7/4/2016**	Uv- Visible spectroscopy		
9	**14/4/2016**	Spectroscopy of organic compound		
10	**21/4/2016**	Application of Uv- Visible spectroscopy		
11	**28/4/2016**	Nuclear magnetic resonance : principles		
12	**5/5/2016**	Nuclear magnetic resonance : Applications		
13	**12/5/2016**	Electron spin resonance : Principles		
14	**19/5/2016**	Electron spin resonance : Applications		
15	**26/5/2016**	Examination		

Instructor Signature: **Dean Signature:**