

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Republic of Iraq
The Ministry Of Higher Education
& Scientific Research



University:Baghdad
College:Science for Women
Department:Chemistry
Stage:First
Lecturer name:Dr.Waleed Ali
Mahmoud
Qualification:Professor

Syllabus Form

Instructor Name	Prof.Dr. Waleed Ali Mahmoud				
E-mail	Waleed56ali@gmail.com				
Course Title	Inorganic Chemistry				
Course Coordinator	Periodic properties and type of compounds				
Course Objectives	Students will understand development of a periodic table, atomic and ionic radius, I.P., EA, EN, Shielding, effective nuclear charge and Slater rules. Type of compounds and their characterization.				
Course Description	This is a theoretical course designed to describe and explain the historical development of a periodic table, atomic radius, ionic radius, shielding, effective nuclear charge, Slater rules, Ionization potential, electron affinity and electronegativity. It reviews general characterization of ionic compounds, size effect, radius ratio rule, lattice energy, application of lattice energy, covalent character in ionic compounds, structure of ionic crystal, close packing of particles and crystal structure metallic bond. Covalent compounds and their characterization, bond length, bond order and geometry of compounds.				
Textbook	Inorganic Chemistry by James Huee, 2008.				
References	(1)Shriver and Atkins, Inorganic Chemistry, 5 th ed. 2010. (2) L. Gary Inorganic Chemistry, 2012.				
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam
	As(35%)	As(15%)	As(10%)	-	As(40%)
General Notes	Type here general notes regarding the course				

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Place of work:Science for Women

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	9/3/2016	Periodic table		
18	16/3/2016	Atomic radius		
19	23/3/2016	Ionic radius		
20	30/3/2016	Shielding		
21	6/4/2016	Effective nuclear charge		
22	13/4/2016	Slater rules		
23	20/4/2016	Ionization potential		
24	27/4/2016	Electron affinity		
25	4/5/2016	Electronegativity		
26	11/5/2016	Ionic compounds		
27	18/5/2016	Ionic bond		
28	25/5/2016	General characterization of ionic compounds		
29	8/5/2016	Size effect		
30	15/5/2016	The radius rule		

31	22/5/2016	Lattice energy, application of lattice energy, Covalent character in ionic compounds, structure of ionic crystal, close packing of particles and crystal structure metallic bond. Covalent compounds and their characterization, bond length, bond order and geometry of compounds.		
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Instructor Signature: Prof. Dr. Waleed Ali Mahmoud

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