Republic of Yemen

Ministry of Higher Education & Scientific Research
Emirates International University



Faculty of -Medicine and Health Science

Department of Clinical Pharmacy

Bachelor of Pharm D

Course Specification of

General Chemistry

Course No. ()

Review committee:

Head of the Department

Quality Assurance head

Dean of Faculty





الجامعة الإماراتية الدولية كلية الطب والعلوم الصحية قسم طب وجراحة الفم والأسنان

EMIRATE

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I.	I. Course Identification and General Information:				
.1	Course Title:	General	General Chemistry		
2	Course Code & Number:	PHYSC 112			
		Credit	Theory	Hours	Lab.
3	Credit Hours:	Hours	Lecture	Exercise	Hours
		3	2		3
4	Study Level/ Semester at which this Course is offered:	1 Level / 1st Semester			
5	Pre -Requisite (if any):				
6	Co -Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Bachelor of Pharm D			
8	Language of Teaching the Course:	English			
9	Study System:	Semester based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:	Faculty	Faculty of Medicine and Health Sciences		
12	Prepared by:	Dr. Mokhtar Al-Ghorafi			

II. Course Description:

This course provides the students with the basic knowledge about general chemistry including the properties of matter, the elements of life ,chemical equilibrium, spectrometry, acid-base concepts, solutions thermodynamics, kinetics, electrochemistry, nuclear chemistry, and an introduction to organic chemistry and biochemistry. Also this course will equip students with the necessary knowledge to understand basic concepts of chemistry.



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III. Course Intended Learning Outcomes (CILOs): (maximum 8)

Upon successful completion of the course, students will be able to:

Referenced PILOs

Learning out of program

	course, students will be able to:		
	A. Knowledge and Understanding:	I, A or E	
a1	Identify the matter and its classification states, atoms, molecules, ions and physical and chemical properties		A1,A3
a2	Describe the principles of chemical bonding ,solutions, chemical kinetics, chemical equilibrium, and acid/base reactions.		
	B. Intellectual Skills:		
b1	Explain the intermolecular forces ,states of matter, buffer and acid-base reaction		В6
b2	Discus the principles of chemical bonding ,solutions, chemical kinetics, chemical equilibrium, acid/base reactions, and basic concepts of chemistry		
	C. Professional and Practical Skills:		
c1	Handle basic laboratory equipments and chemicals effectively and safely.		C1
c2	Write systematic laboratory reports including experimental procedures, observations and conclusions		C1
	D. Transferable Skills:		
d1	Work effectively as part of a team to collect data and/or produce reports and presentations		D3
d2	Develop the decision making and problem solving abilities		D3



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(A) Alignment of Course Intended Learning Outcomes (Knowledge and Understanding) to Teaching Strategies and Assessment Methods: **Course Intended Learning Outcomes Teaching Strategies Assessment Strategies** - Quizzes a1 - Lectures Identify the matter and its - Mid-term Exam classification states, atoms, - Seminars - Final Written molecules, ions and physical - Discussion Exam and chemical properties a2 Describe the principles of - Quizzes - Lectures chemical bonding solutions, - Mid-term Exam - Seminars chemical kinetics, chemical - Final Written - Discussion equilibrium, and acid/base Exam reactions. (B) Alignment of Course Intended Learning Outcomes (Intellectual Skills) to Teaching **Strategies and Assessment Methods: Course Intended Learning Outcomes Teaching Strategies Assessment Strategies** - Ouizzes b1 - Lectures - Mid-term Exam Explain the intermolecular - Seminars forces, states of matter, buffer - Final Written - Discussion and acid-base reaction Exam b2 Discus the principles of - Quizzes - Lectures chemical bonding solutions, - Mid-term Exam chemical kinetics, chemical - Seminars - Final Written equilibrium, acid/base - Discussion Exam reactions, and basic concepts of chemistry (C) Alignment of Course Intended Learning Outcomes (Professional and Practical Skills) to Teaching Strategies and Assessment Methods: **Course Intended Learning Outcomes Teaching Strategies Assessment Strategies** laboratory and other c1 Handle basic laboratory written reports Lectures. equipments and chemicals Ouizzes Lab Experiments effectively and safely. Final Practical Exam MIRAT daboratory and other Write systematic laboratory Lectures.



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	reports including experimental procedures, observations and conclusions	■ Lab Experiments	written reports
	(D) Alignment of Course Intend Strategies and Assessment Meth	,	ferable Skills) to Teaching
	Course Intended Learning Outcomes	Teaching Strategies	Assessment Strategies
d1	Work effectively as part of a team to collect data and/or produce reports and presentations	DiscussionSelf LearningSeminars	Discussion.Group work
d2	Develop the decision making and problem solving abilities	DiscussionSelf LearningSeminars	Discussion.Group work

IV. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Num ber of Week s	Contact Hours	Learning Outcome s (CILOs)
1	 Atomic and Electronic Structure Focus on the Human Body: The Elements of life 	Introduction to chemistry: matter: classification, state of matters, properties of matters, measurements, units . Focus on the Human Body: The Elements of life	1	2	a1,a2,b1 ,b2
2	Atoms, Molecules, and lons	Atoms, Molecules, and Ions: The Atomic Theory, The Structure of the Atom ,Atomic Number, Mass Number, Isotopes, The Periodic Table Molecules and Molecular compounds, Ions and ionic compounds, Chemical Formulas, Life Focus on Health & Medicine: Isotopes in Medicine			a1,a2,b1 ,b2
3	Basic concepts of chemical	Basic concepts of chemical bonding: types of chemical bonds, Lewis	EN	AIRATES ERNATIONAL UNIVERSITY	a1,a2,b1



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No.	Units/Topics List	Sub Topics List	Num ber of Week	Contact Hours	Learning Outcome s (CILOs)
	bonding	symbols, and the Octel Rule ,covalent bonding, bond polarity and electronegativity, Lewis structure, , strengths of covalent bond. electronegativity and bond polarity ,polarity of molecules .Focus on Health & medicine: covalent drugs and medical product.			,b2
4	lonic Compounds	Introduction to bonding . Ions - cations and anions Relating group number to ionic charge for main group elements. Metals with variable charge . Focus on the human body: Important ions in the Body .	1	2	a1,a2,b1 ,b2
5	 Molecular geometry, bonding theory 	Molecular geometry, bonding theory and hybridization: Molecular shapes, Molecular shape and molecular polarity, Covalent bonding and orbital overlap, Hybrid orbitals, multiple bonds, molecular orbitals, application of molecular orbitals in drug interaction	1	2	a1,a2,b1 ,b2
6	Midterm		1	2	a1,a2,b1 ,b2
7	Equilibrium	Equilibrium -The Equilibrium Constant -The Magnitude of the Equilibrium Constant -Le Châtelier's Principle -Concentration Changes -Temperature Changes -Pressure Changes	1	2	a1,a2,b1 ,b2
		Focus on the Human Body: Body Temperatur	No.	النامتار اللية الــــــــــــــــــــــــــــــــــــ	
7	Solutions	Solutions - Osmosis and Biological Membranes	1	MIRATE STERNATION	a1,a2,b1 ,b2



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No.	Units/Topics List	Sub Topics List		Contact Hours	Learning Outcome s (CILOs)
		- Dialysis - Osmosis and Biological Membranes			
8	Chemical kinetics, introduction, reaction	Chemical kinetics, introduction, reactions, Applications in human body	1	2	a1,a2,b1 ,b2
9	Acids and Bases	Acids and Bases ,introduction to acids and bases ,Bronsted–Lowry acids ,relating acid and base strength ,equilibrium and acid dissociation Constants ,dissociation of Water ,the pH Scale ,calculating pH ,Focus on the Human Body: The pH of Body Fluids.	1	2	a1,a2,b1 ,b2
10	рН	pH of strong acids and bases, weak acids ,weak bases. The pH: The pH of Body Fluids, Applications in human body buffer: definition, prepartions, calculations of pH	1	2	a1,a2,b1 ,b2
11	Thermochemistry:	Thermochemistry,energy Focus on the Human Body: Energy and Nutrition	1	2	a1,a2,b1 ,b2
12	Electrochemistry& Nuclear Chemistry	Electrochemistry Nuclear Chemistry Focus on the Human Body	1	2	a1,a2,b1 ,b2
12	The chemistry biomolecules:	carbohydrate, protein ,lipids Focus on the Human Body	2	4	a1,a2,b1 ,b2
13	Final exam		1	2	a1,a2,b1 ,b2
9 5 12 L	Number of Wee	ks /and Units Per Semester	16	32	

В.	Case Studies and Practical Aspect:	
No.	Tasks/ Experiments	Week Due Confact Hours CILOs)
1	Safety practices in the chemistry	Week 1 2 c1,c2
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No.	Tasks/ Experiments	Week Due	Contact Hours	Learning Outcomes (CILOs)
2	Laboratory equipment and density	Week 2	2	c1,c2
3	Solubility test	Week 3	2	c1,c2
4	Solubility of Salt	Week 4	2	c1,c2
5	Solubility patterns and <i>Ksp</i>	Week 5	2	c1,c2
6	pH scale Ka of a Weak Acid	Week 6,7	4	c1,c2
7	Melting and boiling point	Week 8	2	c1,c2
8	Crystallization	Week 9	2	c1,c2
9	Sublimation	Week 10	2	c1,c2
10	Extraction	Week 11	2	c1,c2
11	Distillation	Week 12	2	c1,c2
12	Steam distillation	Week 13	2	c1,c2
13	Qualitative test for elements	Week 14	2	c1,c2
14	Final Exam	Week 15	2	c1,c2
	Number of Weeks /and Units Per Semester	15	30	Suip Letter State

V. Teaching Strategies of the Course:

- Lectures
- Presentation
- Discussion
- Self-learning
- Lab Experiments

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- -Quizzes
- -Midterm Exam
- -Final Written Exam
- -Final Practical Exam
- -laboratory and other written reports
- -Lab Experiments
- -Discussion.

VII. Assignment	nments:
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No.	Assignments	Week Due	Mark	Aligned CILOs (symbols)
1	Assignments: Searching about related subjects of elements on human body	10 th	5	a1,a2,b1,b2
	Total		5	

VIII. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Assignments	10 th	5	5 %	a1,a2,b1,b2
2	Quiz	6 th	5	5 %	a1,a2,b1,b2
3	Mid-Term Theoretical Exam	8 th	20	20 %	a1,a2,b1,b2
4	Final Practical Exam	15 th	20	20 %	c1,c2
5	Final Theoretical Exam	16 th	50	50 %	a1,a2,b1,b2
	Total		100	100%	

IX. Learning Resources:

• Written in the following order: Author, Year of publication, Title, Edition, Place of publication, Publisher.

1- Required Textbook(s) (maximum two):

- 1- Petrucci, Ralph H., et al. 2017, General chemistry: principles and modern applications. Pearson,11th edition, Toronto: Prentice Hall
- 2- . George I Sackheim; Dennis D Lehman, 2009, Chemistry for the health sciences 8th edition, Upper Saddle River, N.J.: Pearson/Prentice-Hall



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2- Essential References:

1- Raymond Chang; Kenneth A Goldsby ,(2014),General chemistry: the essential concepts. 7th edition , New York, NY : McGraw-Hill

2-, Martin S Silberberg, 2013, Principles of general chemistry, 3rd edition, New York: McGraw-Hill

3- Electronic Materials and Web Sites etc.:

Websites:

https://www.khanacademy.org/science/chemistry

	X. Course Policies: (Based on the Uniform Students' By law (2007)
1	Class Attendance: Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.
2	Tardiness: A student will be considered late if he/she is not in class after 10 minutes of the start time of class.
3	Exam Attendance/Punctuality: No student shall be allowed to the exam hall after 30 minutes of the start time, and shall not leave the hall before half of the exam time has passed.
4	Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.
5	Cheating: Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
6	Forgery and Impersonation: Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.
7	Other policies: The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.

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Faculty of -Medicine and Health Science

Department of Clinical Pharmacy

Bachelor of Pharm D

Course Plan (Syllabus) of General Chemistry

Course No. (PHYSC 112)

I. Information about	t Faculty Member Resp	ons	ible	for t	the (Cour	se:
Name of Faculty Member:	Dr. Mokhtar Al-Ghorafi		(Office	Hour	'S	
Location& Telephone No.:							
E-mail:		SAT	SUN	MON	TUE	WED	THU





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I	I. Course Identification and Gen	eral In	ıformati	ion:	
1	Course Title:	General	Chemistry		
2	Course Code & Number:	PHYSC 112			
		Credit Theory Hours		Lab.	
3	Credit Hours:	Hours	Lecture	Exercise	Hours
	-	3	2		3
4	Study Level/ Semester at which this Course is offered:	1 Level / 1st Semester			
5	Pre -Requisite (if any):				
6	Co -Requisite (if any):	None			
7	Program (s) in which the Course is Offered:	Bachelor of Pharm D			
8	Language of Teaching the Course:	English			
9	Study System:	Semester based System			
10	Mode of Delivery:	Full Time			
11	Location of Teaching the Course:	Faculty of Medicine and Health Sciences			
12	Prepared by:	Dr. Mokhtar Al-Ghorafi			

III. Course Description:

This course provides the students with the basic knowledge about general chemistry including the properties of matter, the elements of life ,chemical equilibrium, spectrometry, acid-base concepts, solutions thermodynamics, kinetics, electrochemistry, nuclear chemistry, and an introduction to organic chemistry and biochemistry. Also this course will equip students with the necessary knowledge to understand basic concepts of chemistry .





IV. Course Intended Learning Outcomes (CILOs): Upon successful completion of the Course, student will be able to:

	A. Knowledge and Understanding:
a1	Identify the matter and its classification states, atoms, molecules, ions and physical and chemical properties
a2	Describe the principles of chemical bonding ,solutions, chemical kinetics, chemical equilibrium, and acid/base reactions.
war fr	B. Intellectual Skills:
b1	Explain the intermolecular forces ,states of matter, buffer and acid-base reaction
b2	Discus the principles of chemical bonding ,solutions, chemical kinetics, chemical equilibrium, acid/base reactions, and basic concepts of chemistry
	C. Professional and Practical Skills:
c1	Handle basic laboratory equipments and chemicals effectively and safely.
c2	Write systematic laboratory reports including experimental procedures, observations and conclusions

	D. Transferable Skills:
d1	Work effectively as part of a team to collect data and/or produce reports and
	presentations

d2 Develop the decision making and problem solving abilities

V. Course Contents:

A. Theoretical Aspect:

No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
1	Atomic and Electronic Structure Focus on the Human Body: The Elements of life	 Introduction to chemistry: matter: classification, state of matters, properties of matters, measurements, units . Focus on the Human Body: The Elements of life 		2
2	Atoms, Molecules,	 Atoms, Molecules, and Ions: The Atomic 	IN LEUMIN	2



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No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
	and Ions	Theory, The Structure of the Atom ,Atomic Number, Mass Number, Isotopes, The Periodic Table Molecules and Molecular compounds, Ions and ionic compounds, Chemical Formulas,		
		Life Focus on Health & Medicine: Isotopes in Medicine		
3	Basic concepts of chemical bonding	 Basic concepts of chemical bonding: types of chemical bonds, Lewis symbols, and the Octel Rule ,covalent bonding, bond polarity and electronegativity, Lewis structure, , strengths of covalent bond. electronegativity and bond polarity ,polarity of molecules .Focus on Health & medicine: covalent drugs and medical product. 	1	2
4	Ionic Compounds	 Introduction to bonding. Ions - cations and anions Relating group number to ionic charge for main group elements. Metals with variable charge. Focus on the human body: Important ions in the Body. 	1	2
5	Molecular geometry, bonding theory	 Molecular geometry, bonding theory and hybridization: Molecular shapes, Molecular shape and molecular polarity, Covalent bonding and orbital overlap, Hybrid orbitals, multiple bonds, molecular orbitals, application of molecular orbitals in drug interaction 	1	2
6	Midterm		1	2
7	Equilibrium	 Equilibrium The Equilibrium Constant The Magnitude of the Equilibrium Constant 	1 FS NIRATES AVIRATES ON AN	2





No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
		-Le Châtelier's Principle -Concentration Changes -Temperature Changes -Pressure Changes Focus on the Human Body: Body Temperatur		
7	Solutions	 Solutions Osmosis and Biological Membranes Dialysis Osmosis and Biological Membranes 	1	2
8	Chemical kinetics, introduction, reaction	Chemical kinetics, introduction, reactions, Applications in human body	1	2
9	Acids and Bases	 Acids and Bases ,introduction to acids and bases ,Bronsted–Lowry acids ,relating acid and base strength ,equilibrium and acid dissociation Constants ,dissociation of Water ,the pH Scale ,calculating pH ,Focus on the Human Body: The pH of Body Fluids. 	1	2
10	рН	 pH of strong acids and bases, weak acids ,weak bases. The pH: The pH of Body Fluids ,Applications in human body buffer: definition, prepartions, calculations of pH 	1	2
11	Thermochemistry:	 Thermochemistry, energy Focus on the Human Body: Energy and Nutrition 	1	2
12	Electrochemistry& Nuclear Chemistry	 Electrochemistry Nuclear Chemistry Focus on the Human Body 	1	2
12	The chemistry biomolecules:	 carbohydrate, protein ,lipids Focus on the Human Body 	2	4
13	Final exam	-		2
Nu mbe r of Wee	16	32	MIRATES	





No.	Units/Topics List	Sub Topics List	Number of Weeks	Contact Hours
ks				
/and				
Unit				
S				
Per				
Sem				
ester				

No.	Units/Topics List	Sub Topics List	Numb er of Weeks	Contact Hours
1	 Atomic and Electronic Structure Focus on the Human Body: The Elements of life 	Introduction to chemistry: matter: classification, state of matters, properties of matters, measurements, units . Focus on the Human Body: The Elements of life	. 1	2
2	Atoms, Molecules, and Ions	Atoms, Molecules, and Ions: The Atomic Theory, The Structure of the Atom, Atomic Number, Mass Number, Isotopes, The Periodic Table Molecules and Molecular compounds, Ions and ionic compounds, Chemical Formulas, Life Focus on Health & Medicine: Isotopes in Medicine	1	2
3	Basic concepts of chemical bonding	Basic concepts of chemical bonding: types of chemical bonds, Lewis symbols, and the Octel Rule ,covalent bonding, bond polarity and electronegativity, Lewis structure, , strengths of covalent bond. electronegativity and bond polarity ,polarity of molecules .Focus on Health & medicine: covalent drugs and medical product.	1	2
4	Ionic Compounds	Introduction to bonding . Ions - cations and anions Relating group number to ionic charge for main group elements. Metals with variable charge .	alijuoli alijuoli 1	2 ES





No.	Units/Topics List	Sub Topics List	Numb er of Weeks	Contact Hours
		Focus on the human body: Important ions in the Body .		
5	 Molecular geometry, bonding theory 	Molecular geometry, bonding theory and hybridization: Molecular shapes, Molecular shape and molecular polarity, Covalent bonding and orbital overlap, Hybrid orbitals, multiple bonds, molecular orbitals, application of molecular orbitals in drug interaction	1	2
6	Midterm		1	2
7	Equilibrium	Equilibrium -The Equilibrium Constant -The Magnitude of the Equilibrium Constant -Le Châtelier's Principle -Concentration Changes -Temperature Changes -Pressure Changes Focus on the Human Body: Body Temperatur	1	2
7	Solutions	Solutions - Osmosis and Biological Membranes - Dialysis - Osmosis and Biological Membranes	1	2
8	Chemical kinetics, introduction, reaction	Chemical kinetics, introduction, reactions, Applications in human body	1	2
9	Acids and Bases	Acids and Bases ,introduction to acids and bases ,Bronsted–Lowry acids ,relating acid and base strength ,equilibrium and acid dissociation Constants ,dissociation of Water ,the pH Scale ,calculating pH ,Focus on the Human Body: The pH of Body Fluids.	1 33	2
10	рН	pH of strong acids and bases, weak acids, weak bases. The pH: The pH of Body Fluids	1	TES





No.	Units/Topics List	Sub Topics List	Numb er of Weeks	Contact Hours
		,Applications in human body buffer : definition ,prepartions, calculations of pH		
11	Thermochemistry:	Thermochemistry, energy Focus on the Human Body: Energy and Nutrition	1	2
12	Electrochemistry& Nuclear Chemistry	Electrochemistry Nuclear Chemistry Focus on the Human Body	1	2
12	The chemistry biomolecules:	carbohydrate, protein ,lipids Focus on the Human Body	2	4
13	Final exam		1	2
	Number of Weeks /and Units Per Semester			

No.	Tasks/ Experiments	Week Due	Contac Hours
1	Safety practices in the chemistry	Week1	2
2	Laboratory equipment and density	Week 2	2
3	Solubility test	Week 3	2
4	Solubility of Salt	Week 4	2
5	Solubility patterns and Ksp	Week 5	2
6	pH scale Ka of a Weak Acid	Week 6,7	4
7	Melting and boiling point	Week 8	2
8	Crystallization	Week 9	2
9	Sublimation	Week 1	2
10	Extraction	Week 11	2
11	Distillation	Week 12	2





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No.	Tasks/ Experiments	Week Due	Contact Hours
12	Steam distillation	Week 13	2
13	Qualitative test for elements	Week 14	2
14	Final Exam	Week 15	2
Number of Weeks /and Units Per Semester	15	30	

No.	Tasks/ Experiments	Week Due	Contact Hours	
1	Safety practices in the chemistry	Week1	2	
2	Laboratory equipment and density	Week 2	2	
3	Solubility test	Week 3	2	
4	Solubility of Salt	Week 4	2	
5	Solubility patterns and <i>Ksp</i>	Week 5	2	
6	pH scale <i>Ka</i> of a Weak Acid	Week 6,7	4	
7	Melting and boiling point	Week 8	2	
8	Crystallization	Week 9	2	
9	Sublimation	Week 10	2	
10	Extraction	Week 11	2	
11	Distillation	Week 12	2	
12	Steam distillation	Week 13	2	
13	Qualitative test for elements	Week 14	2	
14	Final Exam	Week 15	2	
	Number of Weeks /and Units Per Semester	15	30	

VI. Teaching Strategies of the Course:

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Lectures

Presentation

Discussion

- Self-learning
- Lab Experiments

-

VII. Assessment Methods of the Course:

- -Quizzes
- -Midterm Exam
- Final Written Exam
- -Final Practical Exam
- -laboratory and other written reports
- -Lab Experiments
- -Discussion.

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VIII.	Assignmer	its:

No.	Assignments	Week Due	Mark
1	Assignments: Searching about related subjects of elements on human body	10th	5
Total	5		

IX. Schedule of Assessment Tasks for Students During the Semester:

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment





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X. Learning Resources:

• Written in the following order: Author, Year of publication, Title, Edition, Place of publication, Publisher.

1- Required Textbook(s) (maximum two):

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3- . George I Sackheim; Dennis D Lehman,2009, Chemistry for the health sciences,8th edition, Upper Saddle River, N.J.: Pearson/Prentice-Hall

2- Essential References:

4- Raymond Chang; Kenneth A Goldsby ,(2014), General chemistry: the essential concepts. 7th edition , New York, NY : McGraw-Hill

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3- Electronic Materials and Web Sites etc.:

Websites:

https://www.khanacademy.org/science/chemistry





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XI.	Course Policies: (Based on the Uniform Students' Bylaw (2007)		
1	Class Attendance: Class Attendance is mandatory. A student is considered absent and shall be banned from taking the final exam if his/her absence exceeds 25% of total classes.		
2	Tardiness: A student will be considered late if he/she is not in class after 10 minutes of the start time of class.		
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4	Assignments & Projects: Assignments and projects must be submitted on time. Students who delay their assignments or projects shall lose the mark allocated for the same.		
5	Cheating: Cheating is an act of fraud that results in the cancelation of the student's exam or assignment. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.		
6	Forgery and Impersonation: Forgery/Impersonation is an act of fraud that results in the cancelation of the student's exam, assignment or project. If it takes place in a final exam, the penalties stipulated for in the Uniform Students' Bylaw (2007) shall apply.		
7	Other policies: The University official regulations in force will be strictly observed and students shall comply with all rules and regulations of the examination set by the Department, Faculty and University Administration.		

General Chemistry