Kingdom of Saudi Arabia
Ministry of Education
Majmaah University
College of Education in Zulfi
Chemistry Department

بسم الله الرحمن الرحيم

جامعة المجمعة
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المملكة العربية السعودية
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Instructor Course Evaluation Form

The purpose of this evaluation is to collect instructor feedback for improving this course and the chemistry program. Information will also be used for program accreditation purposes.

(1)Program Learning Outcomes Evaluations

Course Number/ Name	**Chem412/Kinetic chemistry**	**Semester**	**First 1436/1437**
Instructor	**Dr. Ibtehag Elhassan**		

The course listed above is designed for students to achieve the following outcomes at a Not At All, High , Medium-High, Medium, Low- Medium or Low level.

Please mark (or type) High(5) , Medium-High(4), Medium(3), Low- Medium(2) or Low (1) or Not At All (0) indicating the level to which you believe, as an instructor, the students have achieved these outcomes in this course.

Program Learning Outcomes	**Relevant Activities**	٠	١	٢	٣	٤	٥
Recognize the knowledge of fundamental concepts in Chemistry	Lecture seminars Laboratory study						5
Covering the major principles and theories in the field of chemistry	Lecture seminars Laboratory study						5
Introducing students to the prominent teaching methods and approaches in relation to chemistry.	tutorials directed reading				3		
Explain to general audience the Chemistry principles that underlie our understanding of nature	Lecture Laboratory study					4	
Develop the skill for analyzing/solving the Chemistry based problems.	problems, coursework, tutorials					4	
Think creatively about scientific problems and their solutions	Problems ,project seminar				3		
Applying the acquired academic skills to professional and academic contexts	seminar			2			
An ability to work effectively in diverse teams in both classroom and laboratory	Working in groups within the lab Collective seminars				3		

Taking the initiative to identify urgent problems and solve them.	project Seminar, coursework				3		
Assuming responsibility for self learning and professional development	Home work- dissection -laboratory study				3		
Showing high commitment to work ethics in accordance with Islamic values	——	**0**					
Think creatively about scientific problems and their solution, both orally and in written	problems, coursework, tutorials directed reading					4	
Locate and retrieve scientific information, using modern computer tools	project Seminar, coursework				3		
Learn how to collect and classify the required topics using internet communication tools.	project Seminar, coursework				3		

(2) Catalog Description , and Course Prerequisites Evaluations:

Based on your experiences in the course , please respond by circling the most appropriate number .Circle N/A for items that are not applicable, or if you have no opinion.

Catalog Description 1436-1437 H	• **study the kinetics of molecules** • **conclusion rate of reaction laws** • **Measure the order of chemical reaction** • **The complex reactions** • **The effect of temperature on the rate of reaction** **Theories that explain the occurrence of chemical reactions**						
Course Prerequisites	• **Chemistry thermodynamics chem312**	**Circle One (5=Strongly agree ,1= Strongly disagree)**					
2aDo you believe that the catalog description (above) is accurate for this course		**(5)**	**4**	**3**	**2**	**1**	**N/A**
2bDo you believe that the course prerequisites (above) are appropriate for this course		**5**	**(4)**	**3**	**2**	**2**	**N/A**
cIf not, please list any prerequisites you believe are not appropriate ٢for this course							

(3) Textbook(s) and /or Lab Manuals (if applicable) Evaluations:

Textbook(s) and /or Lab Manuals (if applicable)	• **Kinetic chemistry - Reda Mohamed Saeed** • **Kinetic chemistry and chemical reactions Suleiman Khwaiter**	**Circle One (5=Strongly agree,1= Strongly disagree)**					
3aIn general, do you believe this to be an appropriate textbook for this course؟		(5)	4	3	2	1	N/A
3bWas the organization of the textbook appropriate for this course		5	4	(3)	2	١	N/A
3cWas the level of the textbook appropriate for this course		5	4	(3)	2	1	N/A

(4) Chemical Lab usage (if applicable) Evaluations:

Kinetic chemistry

Chemical Lab usage (if applicable)		**Circle One (5=Strongly agree,1= Strongly disagree)**					
5a.Was the use of chemical lab well integrated with the course?		**(5)**	**4**	**3**	**2**	**1**	N/A
5b. Was the use of chemical lab adequately equipped well –maintained techniques ?		**(5)**	**4**	**3**	**2**	**1**	N/A
5c. Was chemical lab equipped with sufficient chemicals, apparatus and instruments		**(5)**	**4**	**3**	**2**	**1**	N/A
5d.Was adequate technical support available when needed?		**(5)**	**4**	**3**	**2**	**1**	N/A

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Instructor Course Evaluation Form

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(1)Program Learning Outcomes Evaluations

Course Number/ Name	**Chem 222/Quantum chemistry(1)**	**Semester**	**First 1436/1437**
Instructor	**Dr. Ibtehag Elhassan**		

The course listed above is designed for students to achieve the following outcomes at a Not At All, High , Medium-High, Medium, Low- Medium or Low level.

Please mark (or type) High(5) , Medium-High(4), Medium(3), Low- Medium(2) or Low (1) or Not At All (0) indicating the level to which you believe, as an instructor, the students have achieved these outcomes in this course.

Program Learning Outcomes	**Relevant Activities**	**0**	**1**	**2**	3	4	5
Recognize the knowledge of fundamental concepts in Chemistry	Lecture seminars						5
Covering the major principles and theories in the field of chemistry	Lecture seminars						5
Introducing students to the prominent teaching methods and approaches in relation to chemistry.	tutorials directed reading				3		
Explain to general audience the Chemistry principles that underlie our understanding of nature	Lecture Dissection					4	
Develop the skill for analyzing/solving the Chemistry based problems.	problems, coursework, tutorials					4	
Think creatively about scientific problems and their solutions	Problems ,project seminar				3		
Applying the acquired academic skills to professional and academic contexts	Seminar			**2**			
An ability to work effectively in diverse teams in both classroom and laboratory	Working in groups within Collective seminars				3		

Taking the initiative to identify urgent problems and solve them.	project Seminar, coursework				3		
Assuming responsibility for self learning and professional development	Home work- dissection -				3		
Showing high commitment to work ethics in accordance with Islamic values	——	**0**					
Think creatively about scientific problems and their solution, both orally and in written	problems, coursework, tutorials directed reading					4	
Locate and retrieve scientific information, using modern computer tools	project Seminar, coursework				3		
Learn how to collect and classify the required topics using internet communication tools.	project Seminar, coursework				3		

(2) Catalog Description , and Course Prerequisites Evaluations:

Based on your experiences in the course , please respond by circling the most appropriate number .Circle N/A for items that are not applicable, or if you have no opinion.

Catalog Description 1436-1437 H	**study the shortcomings of classical mechanics to explain certain phenomena 2. principle of quantization of energy…3. Planck's constant 4. The property of modern quantum wave -particle theory 5. principle of uncertainty - the wave function associated with the movement of the particle 6. hypotheses of quantum theory and the Schrödinger equation**						
Course Prerequisites	**General Chemistry Chem111**	**Circle One (5=Strongly agree ,1= Strongly disagree)**					
2aDo you believe that the catalog description (above) is accurate for this course		**(٥)**	٤	٣	٢	١	**N/A**
2bDo you believe that the course prerequisites (above) are appropriate for this course		٥	٤	**(٣)**	٢	١	**N/A**
cIf not, please list any prerequisites you believe are not appropriate for this course							

(3) Textbook(s) and /or Lab Manuals (if applicable) Evaluations:

Textbook(s) and /or Lab Manuals (if applicable)	• **Quantum chemistry, Rashed Abdul - Aziz Al-Mubarak** • **Introduction to Quantum Chemistry , D / Abdel Moneim al aaser**	**Circle One (5=Strongly agree,1= Strongly disagree)**					
3a- In general, do you believe this to be an appropriate textbook for this course؟		(5)	4	3	2	1	N/A
3bWas the organization of the textbook appropriate for this course		5	(4)	3	2	1	N/A
3cWas the level of the textbook appropriate for this course		5	4	(3)	2	1	N/A

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Instructor Course Evaluation Form

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(١)Program Learning Outcomes Evaluations

Course Number/ Name	**Chem424** Nuclear and Radiation Chemistry	**Semester**	**First 1436/1437**
Instructor :	**Dr. Manal Salem**		

The course listed above is designed for students to achieve the following outcomes at a Not At All, High , Medium-High, Medium, Low- Medium or Low level.

Please mark (or type) High(5) , Medium-High(4), Medium(3), Low- Medium(2) or Low (1) or Not At All (0) indicating the level to which you believe, as an instructor, the students have achieved these outcomes in this course.

Program Learning Outcomes	**Relevant Activities**	٠	١	٢	٣	٤	٥
a_1. Recognize the knowledge of fundamental concepts in Chemistry	Lectures Assignments						5
a_2.Covering the major principles and theories in the field of chemistry	Lectures Assignments					4	
a_3.Introducing students to the prominent teaching methods and approaches in relation to chemistry.	Lectures Assignments					4	
b1 .Explain to general audience the Chemistry principles that underlie our understanding of nature	Lectures Assignments						5
b2.Develop the skill for analyzing/solving the Chemistry based problems	Lectures Assignments homework				3		
b3.Think creatively about scientific problems and their solutions	Assignments Orel discussion				٣		
b4.Applying the acquired academic skills to professional and academic contexts.				2			
c1 . An ability to work effectively in diverse teams in both classroom and laboratory.	Divided students into groups and using oral discussion with homework				3		
C2 .Taking the initiative to identify urgent problems and solve them	Orel discussion homework					4	
C3.Assuming responsibility for self learning and professional development	Orel discussion				٣		
C4.Showing high commitment to work ethics in accordance with Islamic values		0					

d1.Think creatively about scientific problems and their solution, both orally and in written	Lectures Assignments					4	
d2.Locate and retrieve scientific information, using modern computer tools	Divided students into groups and using oral discussion with homework				٣		
d3.Learn how to collect and classify the required topics using internet communication tools.	Assignments homework					٤	

(٢) Catalog Description , and Course Prerequisites Evaluations:

Based on your experiences in the course , please respond by circling the most appropriate number .Circle N/A for items that are not applicable, or if you have no opinion.

Catalog Description 1436-1437 H	-Types of radiation -The stability of the nucleus -Nuclear Fission, Nuclear fusion -Nuclear accelerators, Neutron sources -The interaction of radiation with the material Radioactive reagents, Radiation monitors.						
Course Prerequisites	Nothing	**Circle One (5=Strongly agree ,1= Strongly disagree)**					
2a.Do you believe that the catalog description (above) is accurate for this course?		**(٥)**	**(٤)**	**(٣)**	**(٢)**	**(١)**	**N/A**
2b. Do you believe that the course prerequisites (above) are appropriate for this course?		**(٥)**	**(٤)**	**(٣)**	**(٢)**	**(١)**	**N/A**
2c. If not, please list any prerequisites you believe are not appropriate for this course?		The course prerequisites are absent but must present for this course such as transition metals and coordination chemistry courses					

(3) Textbook(s) and /or Lab Manuals (if applicable) Evaluations:

Textbook(s) and /or Lab Manuals (if applicable)	1.Principles of Nuclear Chemistry, T.A.Kandil, the first edition 2001-1424h. 2. Introduction in nuclear and radiation chemistry, A.Suleiman , A. Salem Al-Attas, the first edition 1426-2005. 3 Introduction to the electronic structure of the atom and Nuclear Chemistry, F. M.Hadi, A. H. Shehata, the first edition 1428-2007. 4."Nuclear and Radio Chemistry", G.Fridlandr, J.W.Kennedy SMacias and J.M.Miller BrdEd.John Wily and Son Inc.1981. 5."Nuclear Chemistry", Theory and Applications" GR.Choppin and J.Rydberge Pergamon Press1980.	**Circle One (5=Strongly agree,1= Strongly disagree)**					
3a	In general, do you believe this to be an appropriate textbook for this course?	(٥)	(٤)	(٣)	(٢)	(١)	N/A

٣b	Was the organization of the text book appropriate for this course?	(٥)	(٤)	(٣)	(٢)	(١)	N/A
3c	Was the level of the text book appropriate for this course?	(٥)	(٤)	(٣)	(٢)	(١)	N/A

(4) Chemical Lab usage (if applicable) Evaluations

Chemical Lab usage (if applicable)	**Circle One (5=Strongly agree,1= Strongly disagree)**					
5a.Was the use of chemical lab well integrated with the course?	(٥)	(٤)	(٣)	(٢)	(١)	N/A
5b. Was the use of chemical lab adequately equipped well –maintained techniques ?	(٥)	(٤)	(٣)	(٢)	(١)	N/A
5c. Was chemical lab equipped with sufficient chemicals, apparatus and instruments	(٥)	(٤)	(٣)	(٢)	(١)	N/A
5d.Was adequate technical support available when needed?	(٥)	(٤)	(٣)	(٢)	(١)	N/A

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Instructor Course Evaluation Form

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(1)Program Learning Outcomes Evaluations

Course Number/ Name	**Instrumental Analysis Chemistry)-**CHEM 411	**Semester**	**First 1436/1437**
Instructor	**Dr.Mai Makki**		

The course listed above is designed for students to achieve the following outcomes at a Not At All, High , Medium-High, Medium, Low- Medium or Low level.

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Program Learning Outcomes	**Relevant Activities**	0	1	2	3	4	5
Recognize the knowledge of fundamental concepts in Chemistry	Lecture Oral discussion Written home work Midterm and final Exam						5
Covering the major principles and theories in the field of chemistry	Lecture Oral discussion Written home work Midterm and final Exam						5
Introducing students to the prominent teaching methods and approaches in relation to chemistry.	Written home work			2			
Explain to general audience the Chemistry principles that underlie our understanding of nature	Lecture Oral discussion Written home work Midterm and final Exam						5
Develop the skill for analyzing/solving the Chemistry based problems.	Lecture Oral discussion Written home work					4	
Think creatively about scientific problems and their solutions	Lecture Oral discussion Written home work				3		
Applying the acquired academic skills to professional and academic contexts.							
An ability to work effectively in diverse teams in both classroom and laboratory.	Discussion as groups Work as groups in the lab						5

Taking the initiative to identify urgent problems and solve them.	Lecture Laboratory Oral discussion Written home work				3		
Assuming responsibility for self-learning and professional development.	Lecture Oral discussion Written home work					4	
Showing high commitment to work ethics in accordance with Islamic values	Lecture Laboratory Oral discussion Written home work				3		
Think creatively about scientific problems and their solutions, both orally and in written	Lecture Oral discussion Laboratory Written home work					4	
Locate and retrieve scientific information, using modern computer tools	Oral discussion Written home work					4	
Learn how to collect and classify the required topics using internet communication tools.	Lecture Oral discussion Written home work						5

(2) Catalog Description , and Course Prerequisites Evaluations:

Based on your experiences in the course , please respond by circling the most appropriate number .Circle N/A for items that are not applicable, or if you have no opinion.

Catalog Description 1436-1437 H	A:Theoretica:priciples of UV spectra , visible (Vis), infrared spectra IR, NMR and Mass Spectrometry A general introduction in the electrolytic methods include Potentiometric , colomtric and gravimetric analysis and Electrolytic Ampirometric and voltamitric titration Introduction to the Chromatography and distribution coefficient Chromatographic methods of separation sheets, columns and gas chromatography. B:Practical :Identification of some chemical compounds using UV spectra , visible (Vis), infrared spectra IR, NMR and Mass Spectrometry

	Use of Baber chromatography for separation of some chemical compounds Use of UV spectra for identification of some chemical compounds Calculate of some absorbance values of organic compounds in the UV spectrum Calculate the ph. of some compounds using ph. meter

Course Prerequisites	**CHEM411**	**Circle One (5=Strongly agree ,1= Strongly disagree)**					
2a.Do you believe that the catalog description above is accurate for this course?		**(5)**	**4**	**3**	**2**	**1**	**N/A**
2b. Do you believe that the course perquisites above are appropriate for this course?		**(5)**	**4**	**3**	**2**	**1**	**N/A**
2c.If not, please list any perquisites you believe are appropriate for this course							

(3) Textbook(s) and /or Lab Manuals (if applicable) Evaluations:

Textbook(s) and /or Lab Manuals (if applicable)	**Instrumental Analysis Chemistry, Ibrahim Al-Zamel. 1993. Quantitative analytical chemistry, 5th edition by j.S. Fritz and G.H. Schneck. 1987 .Key creativity in Chemistry, Omar Helwah Quantitative analytical chemistry, 5th edition by j.S. Fritz and G.H. Schneck. 1987 Hassan Mohammed al-Hazmi, Salem Schoeman Alchwimman Library Khuraiji,1986. spectrometric identification of organic compounds : Silverstein and G . Gayton Bassler John Wiley and Sons ,Inc New York,London 1994.**	**Circle One (5=Strongly agree,1= Strongly disagree)**					
3a.In general do you believe this to be an appropriate textbook for this Course?		**(5)**	**4**	**3**	**2**	**1**	N/A
3b.Was the organization of the textbook appropriate for this Course?		**(5)**	**4**	**3**	**2**	**1**	N/A
3c. Was the level of the textbook appropriate for this Course?		**5**	**(4)**	**3**	**2**	**1**	N/A

(4) Chemical Lab usage (if applicable) Evaluations:

Chemical Lab usage (if applicable)		**Circle One (5=Strongly agree,1= Strongly disagree)**					
5a.Was the use of chemical lab well integrated with the course?		**(5)**	**4**	**3**	**2**	**1**	N/A
5b. Was the use of chemical lab adequately equipped well –maintained techniques ?		**5**	**4**	**3**	**(2)**	**1**	N/A
5c. Was chemical lab equipped with sufficient chemicals, apparatus and instruments		**5**	**4**	**3**	**(2)**	**1**	N/A
5d.Was adequate technical support available when needed?		**5**	**(4)**	**3**	**2**	**1**	N/A

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Instructor Course Evaluation Form

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(1)Program Learning Outcomes Evaluations

Course Number/ Name	Inorganic chemistry (Main group elements)-CHEM 122	**Semester**	**First 1436/1437**
Instructor	**Dr.Mai Makki**		

The course listed above is designed for students to achieve the following outcomes at a Not At All, High , Medium-High, Medium, Low- Medium or Low level.

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Program Learning Outcomes	**Relevant Activities**	0	1	2	3	4	5
Recognize the knowledge of fundamental concepts in Chemistry	Lecture Oral discussion Written home work Midterm and final Exam						5
Covering the major principles and theories in the field of chemistry	Lecture Oral discussion Written home work Midterm and final Exam						5
Introducing students to the prominent teaching methods and approaches in relation to chemistry.	Lecture		1				
Explain to general audience the Chemistry principles that underlie our understanding of nature	Lecture Oral discussion Written home work Midterm and final Exam						5
Develop the skill for analyzing/solving the Chemistry based problems.	Lecture Oral discussion Written home work				3		
Think creatively about scientific problems and their solutions	Lecture Oral discussion Written home work					4	
Applying the acquired academic skills to professional and academic contexts.	Oral discussion Written home work			2			
An ability to work effectively in diverse teams in classroom .	Discussion as groups Work as groups at research					4	
Taking the initiative to identify urgent problems and solve them.	Lecture Oral discussion					4	

	Written home work						
Assuming responsibility for self-learning and professional development.	Lecture Oral discussion Written home work				3		
Showing high commitment to work ethics in accordance with Islamic values	Lecture Oral discussion Written home work				3		
Think creatively about scientific problems and their solutions, both orally and in written	Lecture Oral discussion Written home work				3		
Locate and retrieve scientific information, using modern computer tools	Oral discussion Written home work					4	
Learn how to collect and classify the required topics using internet communication tools.	Lecture Oral discussion Written home work						5

(2) Catalog Description , and Course Prerequisites Evaluations:

Based on your experiences in the course , please respond by circling the most appropriate number .Circle N/A for items that are not applicable, or if you have no opinion.

Catalog Description 1436-1437 H	Electronic structure and Periodic Classification of Elements, Periodic properties of the elements, Sizes of atoms and ions, Ionization potential**,** Electro negativity, Electron affinity, Metallic properties. Ionic and covalent bonding, The Nature of Solids, some of ionic compounds. lattice energy, calculation of lattice energy some applications of lattice energies, Born-Haber cycle An introduction to covalent compounds, Valence bond theory, Valence bond theory of hydrogen molecule H_2, Hybridization of hydrogen molecule H_2 Molecular orbital (MO) theory, Molecular Orbital (MO) Theory of the H_2 molecule. Building Molecular Orbital Diagrams for Homonuclear and Heteronuclear diatomic molecules

	Hydrogen and its compounds, Physical and chemical properties of hydrogen. Chemical properties of s and p block elements. Diagonal relationship Li and Mg. Chemical properties of Beryllium. The difference between Beryllium and Aluminum. Introduction to Electron-deficient compound. Chemistry of boron.

Course Prerequisites	**CHEM411**	**Circle One (5=Strongly agree ,1= Strongly disagree)**					
2a.Do you believe that the catalog description above is accurate for this course?		**(5)**	**4**	**3**	**2**	**1**	**N/A**
2b. Do you believe that the course perquisites above are appropriate for this course?		**(5)**	**4**	**3**	**2**	**1**	**N/A**
2c.If not, please list any perquisites you believe are appropriate for this course							

(3) Textbook(s) and /or Lab Manuals (if applicable) Evaluations:

Textbook(s) and /or Lab Manuals (if applicable)	• **Main Group Chemistry (Khalifa Mohammed Ali Saleh** • **Chemistry: Principles and Reactions by William L. Masterton, Cecile N. Hurley, Hardcover: 756 pages, Publisher: Brooks Cole, 5 edition, 2003** • **Chemistry, 7th edition , Chang, 2006** • **Chemistry: Matter and Its Changes, James E. Brady, Fred Senese** • **General Chemistry: Principles and Modern Applications. 8th**	**Circle One (5=Strongly agree,1= Strongly disagree)**

Edition by: Petrucci, Harwood, Herring • **Chemistry, 5th edition by Mortimer**						
• **3a.In general do you believe this to be an appropriate textbook for this** • **Course?**	**(5)**	**4**	**3**	**2**	**1**	N/A
3b.Was the organization of the textbook appropriate for this Course?	**(5)**	**4**	**3**	**2**	**1**	N/A
3c. Was the level of the textbook appropriate for this Course?	**5**	**(4)**	**3**	**2**	**1**	N/A

(4) Chemical Lab usage (if applicable) Evaluations: the chemical lap rotary is not applicable for this course

Chemical Lab usage (if applicable)		**Circle One (5=Strongly agree,1= Strongly disagree)**					
5a.Was the use of chemical lab well integrated with the course?		**5**	**4**	**3**	**2**	**1**	N/A
5b. Was the use of chemical lab adequately equipped well –maintained techniques ?		**5**	**4**	**3**	**2**	**1**	N/A
5c. Was chemical lab equipped with sufficient chemicals, apparatus and instruments		**5**	**4**	**3**	**2**	**1**	N/A
5d.Was adequate technical support available when needed?		**5**	**4**	**3**	**2**	**1**	N/A

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Instructor Course Evaluation Form

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(1)Program Learning Outcomes Evaluations

Course Number/ Name Chemistry of Natural products	Chem 421	Semester	First 1436/1437
Instructor Dr Amani Hassan Ahmed			

The course listed above is designed for students to achieve the following outcomes at a Not At All, High , Medium-High, Medium, Low- Medium or Low level.

Please mark (or type) High(5) , Medium-High(4), Medium(3), Low- Medium(2) or Low (1) or Not At All (0) indicating the level to which you believe, as an instructor, the students have achieved these outcomes in this course.

Program Learning Outcomes	Relevant Activities	0	1	2	3	4	5
a1)Recognize the knowledge of fundamental concepts in Chemistry	Lectures, Practical Home work Seminar				 3 3		5 5
a2)Covering the major principles and theories in the field of chemistry	Lectures Practical Assignment Home work Seminar				 3 3	4	5 5
a3)Introducing students to the prominent teaching methods and approaches in relation to chemistry.							
b1)Explain to general audience the Chemistry principles that underlie our understanding of nature	Lectures Practical Assignment Home work Seminar					 4 4 4	5 5
b2) Develop the skill for analyzing/solving the Chemistry	Lectures						5

based problems.	Practical Assignment Home work Seminar collaborative education					4 4 4 4	5
b3)Think creatively about scientific problems and their solutions	Lectures Practical Assignment Home work Seminar collaborative education					4 4 4 4 4 4	
b4)Applying the acquired academic skills to professional and academic contexts.	Lectures Practical					4 4	
c1)An ability to work effectively in diverse teams in both classroom and laboratory.	Practical Assignment Home work Seminar Small groups of students are given individual assignments. Students will introduce their assignment in the form of: Power point presentation. Written assignment. collaborative education					 4 4 4 4 4 4 4	5
c2)Taking the initiative to identify urgent problems and solve them.	Assignment Home work Seminar					4 4 4	
c3)Assuming responsibility for self-learning and professional development.	Assignment Home work					4 4 4	

	Seminar						
c4) Showing high commitment to work ethics in accordance with Islamic values		-					
d1)Think creatively about scientific problems and their solution, both orally and in written	Practical Assignment Home work Seminar Small groups of students are given individual assignments. Students will introduce their assignment in the form of: Power point presentation. Written assignment. collaborative education					4 4 4 4 4 4 4	
d2)Locate and retrieve scientific information, using modern computer tools	Small groups of students are given individual assignments. Students will introduce their assignment in the form of: Power point presentation. Written assignment. collaborative education					 4 4 4	
d3)Learn how to collect and classify the required topics using internet communication tools.	Assignment Home work Seminar					4 4 4	

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كلية التربية بالزلفي
قسم الكيمياء

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(2) Catalog Description , and Course Prerequisites Evaluations:

Based on your experiences in the course , please respond by circling the most appropriate number .Circle N/A for items that are not applicable, or if you have no opinion.

Catalog Description 1436-1437 H	- Natural Products Chemistry course is three credit hours, course offered in the eighth level of the chemistry curriculum. -This course provides an introduction to the broad field of Natural Products Chemistry by reviewing the major classes of Natural Products compounds. -knowledge on the identification and chemistry of natural products. -knowledge on The identification and biosynthesis of the various classes of natural products such as(terpenes, steroids , alkaloids and flavonoids) -Acquirement skills to extraction, isolate and purify simple products that are derived from plants						
Course Prerequisites CHEM 221		Circle One (5=Strongly agree ,1= Strongly disagree)					
2a. Do you believe that the catalog description (above) is accurate for this course?		(5)	(4)	(3)	(2)	(1)	N/A
2b. Do you believe that the course prerequisites (above) are appropriate for this course?		(5)	(4)	(3)	(2)	(1)	N/A

(3) Textbook(s) and /or Lab Manuals (if applicable) Evaluations:

Textbook(s) and /or Lab Manuals (if applicable) • Natural Products : The Secondary Metabolites.James R Hans Editor E W Abel Copyright: 2003.Print ISBN: 978-0-85404-490-0		Circle One (5=Strongly agree,1= Strongly disagree)					
3a. In general, do you believe this to be an appropriate textbook for this course?		(5)	(4)	(3)	(2)	(1)	N/A
3b. Was the organization of the textbook appropriate for this course?		(5)	(4)	(3)	(2)	(1)	N/A
3c. Was the level of the textbook appropriate for this course?		(5)	(4)	(3)	(2)	(1)	N/A

(4) Chemical Lab usage (if applicable) Evaluations:

Chemical Lab usage (if applicable)		Circle One (5=Strongly agree,1= Strongly disagree)					
4a.Was the use of chemical lab well integrated with the course?		(5)	(4)	(3)	(2)	(1)	N/A
4b. Was the use of chemical lab adequately equipped well –maintained techniques ?		(5)	(4)	(3)	(2)	(1)	N/A
4c. Was chemical lab equipped with sufficient chemicals, apparatus and instruments		(5)	(4)	(3)	(2)	(1)	N/A
4d.Was adequate technical support available when needed?		(5)	(4)	(3)	(2)	(1)	N/A

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Instructor Course Evaluation Form

The purpose of this evaluation is to collect instructor feedback for improving this course and the chemistry program. Information will also be used for program accreditation purposes.

(1)Program Learning Outcomes Evaluations

Course Number/ Name Heterocyclic compounds	Chem 221	Semester	First 1436/1437
Instructor Dr Amani Hassan Ahmed			

The course listed above is designed for students to achieve the following outcomes at a Not At All, High , Medium-High, Medium, Low- Medium or Low level.

Please mark (or type) High(5) , Medium-High(4), Medium(3), Low- Medium(2) or Low (1) or Not At All (0) indicating the level to which you believe, as an instructor, the students have achieved these outcomes in this course.

Program Learning Outcomes	Relevant Activities	0	1	2	3	4	5
a1)Recognize the knowledge of fundamental concepts in Chemistry	Lectures, Practical Home work Seminar				 3 3		5 5
a2)Covering the major principles and theories in the field of chemistry	Lectures Practical Assignment Home work Seminar				 3 3	 4	 5 5
a3)Introducing students to the prominent teaching methods and approaches in relation to chemistry.							
b1)Explain to general audience the Chemistry principles that underlie our understanding of nature	Lectures Practical Assignment Home work Seminar					 4 4 4	 5 5
b2) Develop the skill for analyzing/solving the Chemistry	Lectures						5

based problems.	Practical Assignment Home work Seminar collaborative education					4 4 4 4	5
b3)Think creatively about scientific problems and their solutions	Lectures Practical Assignment Home work Seminar collaborative education					4 4 4 4 4 4	
b4)Applying the acquired academic skills to professional and academic contexts.	Lectures Practical					4 4	
c1)An ability to work effectively in diverse teams in both classroom and laboratory.	Practical Assignment Home work Seminar Small groups of students are given individual assignments. Students will introduce their assignment in the form of: Power point presentation. Written assignment. collaborative education					 4 4 4 4 4 4 4	5
c2)Taking the initiative to identify urgent problems and solve them.	Assignment Home work Seminar					4 4 4	
c3)Assuming responsibility for self-learning and professional development.	Assignment Home work					4 4 4	

	Seminar						
c4) Showing high commitment to work ethics in accordance with Islamic values		-					
d1)Think creatively about scientific problems and their solution, both orally and in written	Practical Assignment Home work Seminar Small groups of students are given individual assignments. Students will introduce their assignment in the form of: Power point presentation. Written assignment. collaborative education					4 4 4 4 4 4 4	
d2)Locate and retrieve scientific information, using modern computer tools	Small groups of students are given individual assignments. Students will introduce their assignment in the form of: Power point presentation. Written assignment. collaborative education					 4 4 4	
d3)Learn how to collect and classify the required topics using internet communication tools.	Assignment Home work Seminar					4 4 4	

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(2) Catalog Description , and Course Prerequisites Evaluations:

Based on your experiences in the course , please respond by circling the most appropriate number .Circle N/A for items that are not applicable, or if you have no opinion.

Catalog Description 1436-1437 H	- Chemistry of Heterocyclic Compounds course is four credit hours, course offered in the fourth level of the chemistry curriculum. - This course provides an introduction to the broad field of heterocyclic organic chemistry by reviewing the major classes of heterocyclic compounds in terms of nomenclature, structure, properties, preparations and reactions. - The syntheses of several physiologically important heterocyclic compounds are given. -Knows the proper procedures and regulations for safe handling and use of chemicals .						
Course Prerequisites CHEM 211		Circle One (5=Strongly agree ,1= Strongly disagree)					
2a. Do you believe that the catalog description (above) is accurate for this course?		(5)	(4)	(3)	(2)	(1)	N/A
2b. Do you believe that the course prerequisites (above) are appropriate for this course?		(5)	(4)	(3)	(2)	(1)	N/A

(3) Textbook(s) and /or Lab Manuals (if applicable) Evaluations:

Textbook(s) and /or Lab Manuals (if applicable) • Hetrocyclic Chemistry ,2nd Ed.T.L.Gilchrist Longman Scientific & Technical Longman group UK Co published in the United State with John Wily , Sons and Inc. New York 2nd Ed. 1993.		Circle One (5=Strongly agree,1= Strongly disagree)					
3a. In general, do you believe this to be an appropriate textbook for this course?		(5)	(4)	(3)	(2)	(1)	N/A
3b. Was the organization of the textbook appropriate for this course?		(5)	(4)	(3)	(2)	(1)	N/A
3c. Was the level of the textbook appropriate for this course?		(5)	(4)	(3)	(2)	(1)	N/A

(4) Chemical Lab usage (if applicable) Evaluations:

Chemical Lab usage (if applicable)		Circle One (5=Strongly agree,1= Strongly disagree)					
4a.Was the use of chemical lab well integrated with the course?		(5)	(4)	(3)	(2)	(1)	N/A
4b. Was the use of chemical lab adequately equipped well –maintained techniques ?		(5)	(4)	(3)	(2)	(1)	N/A
4c. Was chemical lab equipped with sufficient chemicals, apparatus and instruments		(5)	(4)	(3)	(2)	(1)	N/A
4d.Was adequate technical support available when needed?		(5)	(4)	(3)	(2)	(1)	N/A

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