

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Biostatics		Module Delivery
Module Type	Basic		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	ENVI-12009		
ECTS Credits	4		
SWL (hr/sem)	100		
Module Level	1	Semester of Delivery	
Administering Department	Type Dept. Code	College	Type College Code
Module Leader	Name: Rabah Salim Shareef	e-mail	eq.rabah.s.shareef@uoanbar.edu.iq
Module Leader's Acad. Title	Asset. Professor	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name: Rabah Salim Shareef	e-mail	eq.rabah.s.shareef@uoanbar.edu.iq
Scientific Committee Approval Date	01/06/2023	Version Number	1.0

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Objectives أهداف المادة الدراسية	Upon completion of the course the learner is expected to do the following: <ol style="list-style-type: none">1. design research questions;2. distinguish qualitative and quantitative data;3. Evaluate strength of different biological experimental designs; and4. Evaluate different data analysis methods;
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	Upon successful completion of the course the learner will be able to: <ol style="list-style-type: none">1. Knowledge of the basics of biological tests2. Know the importance of health and vital data3. Know how to collect data and samples4. analyze different experimental designs for generation of qualitative and quantitative data;5. design research hypotheses and generate appropriate data; and6. generated data to appropriate statistical analysis and give relevant interpretation to the output
Indicative Contents المحتويات الإرشادية	This course explores the meaning of statistics. It introduces students to some basic terms like variable, continuous variable, discrete or discontinuous variables population, sample, histogram, frequency, classes, class interval and frequency distribution; a distribution in statistical terms: mode, median, mean; measuring the spread of a distribution: range, semi interquartile range, mean deviation, variance, standard deviation; samples and populations: probability and the normal distribution curve, distribution of t, calculating the limits of a mean; and comparing the means of two samples: null hypothesis, alternate hypothesis, differences between standard deviations, limits for standard deviation and variance. The course also examines a comparison of three or more samples: simple analysis of variance; correlation of two variables: scatter diagram, correlation coefficient, regression lines, mean center; and chi-square test: the 2x2 contingency table. Learners are taken through planning experiments: layout of experiments, controls, precision of measurements, number of replicates, randomization, Latin squares, and interaction.

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering types of simple experiments involving some sampling activities that are interesting to the students.
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Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	48	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	52	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.5
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	1hr	10% (10)	7	LO #1 - #7
	Final Exam	2hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	INTRODUCTION TO BIOSTATISTICS: Meaning of biostatistics - Types of variables - Population and samples (Populations, Samples from populations, Random sampling, Parameters and statistics)
Week 2	Data Collection: (Sources of statistical data, The sources of medical data , Methods of data collection , Sampling Method , Methods of ensuring sample representation of the original population)
Week 3	PRESENTATION OF BIOLOGICAL DATA: (Frequency distribution)
Week 4	Graphical presentation: (Bar Charts, Histogram, Frequency polygon, Cumulative Frequency Polygon, The Pie Chart)
Week 5	PROBABILITY AND STATISTICS: 1- Probability (Laws of probability: Counting possible outcomes, Probability of an event, adding probabilities, Multiplying probabilities) – 2- Permutation and combinations: (Permutations, Combinations)
Week 6	NORMAL DISTRIBUTION: (Symmetry and Kurtosis • Proportions of normal distribution • The distribution of means • Statistical hypothesis testing • Assessing departures from normality)

Week 7	BIONOMIAL AND POISSON DISTRIBUTION: (• Binomial distribution • Poisson distribution)
Week 8	STANDRAD ERROR AND CONFIDENCE INTERVAL: (• Standard error • Confidence interval)
Week 9	HYPOTHESIS TESTING: (• Null hypothesis and alternative hypotheses • The standard format for hypothesis testing)
Week 10	THE t- DISTRIBUTION: One group of observations (or one sample test) • Two independent group of observation (Variances not known; Variances known)
Week 11	THE CHI-SQUARE DISTRIBUTION: Ch-Square X^2
Week 12	Correlation Analysis: (Types of correlation , Measuring Correlation , Simple correlation coefficient , Multiple correlation coefficient , Partial Correlation)
Week 13	Regression Analysis: (The importance of regression analysis , The importance of , regression analysis , Simple linear Regression Analysis , Simple Regression Model , Multiple liner regression)
Week 14	ANALYSIS OF VARIANCE: One-way (Single factor) ANOVA
Week 15	ANALYSIS OF VARIANCE: Two-way (factor) ANOVA
Week 16	Preparatory week before the final Exam

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Introductory Biostatistics for the Health Sciences	No
Recommended Texts	Techniques of Medical and Biological Statistics, 2021	No
Websites		

Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information				
معلومات المادة الدراسية				
Module Title	ENGLISH		Module Delivery	
Module Type	S		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar	
Module Code				
ECTS Credits	4			
SWL (hr/sem)	100			
Module Level	First	Semester of Delivery		second
Administering Department	Environmet	College	College of Applied Sciences - Hit	
Module Leader	Dhiyaa F Mahmood		e-mail	dhiyaafakhri72@gmail.com
Module Leader's Acad. Title			Module Leader's Qualification	
Module Tutor			e-mail	
Peer Reviewer Name			e-mail	
Scientific Committee Approval Date			Version Number	

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module		Semester	
Co-requisites module		Semester	

Module Aims, Learning Outcomes and Indicative Contents	
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	1.To understand English grammar and develop their ability to increase knowledge of English grammar. 2. Acquire knowledge about many grammatical issues, 3. Improving their ability to learn different grammar approaches, techniques and methodologies
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	Familiarity with the four English language skills: listening, reading, speaking, and writing. Know the origins of the phonology of the English language. Describing literary phenomena in different eras.
Indicative Contents المحتويات الإرشادية	a- Methods of teaching and learning 1- Giving lectures. 2- Using the method of recitation, discussion and solving questions. 3- Giving assignments to students to strengthen them and prepare them for the final and final exams. b- Evaluation methods 1- Daily and monthly exams 2- Duties 3- In-class exercises

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	<ul style="list-style-type: none"> • Teacher and student strategy • Brainstorming • Student and teacher strategy
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Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	37	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	10			
	Assignments	10			
	Projects / Lab.				
	Report	20			
Summative assessment	Midterm Exam	10			
	Final Exam	50			
Total assessment					

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	The auxiliary verb, its morphological uses, definite and indefinite articles
Week 2	Demonstrative nouns, pronouns, and abbreviations
Week 3	Simple present
Week 4	Compound sentences
Week 5	The present continuous, the base negative, and the interrogative
Week 6	Exam
Week 7	Recurrence conditions
Week 8	Countable and uncountable
Week 9	Plural, how many, how many
Week 10	Addition rules ing and s
Week 11	Simple future
Week 12	Present Continuous
Week 13	Present simple
Week 14	Simple past
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Lab 1: dripping
Week 2	Lab 2: Use it , in , on
Week 3	Lab 3: Explain any ,som , a lot , a lot of
Week 4	Lab 4: Use of possessive forms
Week 5	Lab 5: Solving exercises
Week 6	Lab 6: Solving exercises
Week 7	Lab 7: Solving exercises

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	Jean Praninskas Rapid Review of English Grammar	Yes
Recommended Texts		
Websites		

Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title اسم المادة او الوحدة	Geology علم الارض		Module Delivery
Module Type نوع الوحدة	Base		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code كود الوحدة			
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level المرحلة الدراسية	1	Semester of Delivery الكورس الدراسي	
Administering Department القسم	قسم البيئة Department of Environment	College الكلية	كلية العلوم التطبيقية - هيت College of Applied Sciences - Heat
Module Leader مسؤول الوحدة	اسامة جاسم محمد سويد	e-mail الاميل	msc.osamajm@uoanbar.edu.iq
Module Leader's Acad. Title العنوان الاكاديمي لمسؤول الوحدة	assistant teacher مدرس مساعد	Module Leader's Qualification مؤهلات مسؤول الوحدة	ماجستير Master's
Module Tutor مدرس مساعد	None	e-mai الاميل	None
Peer Reviewer Name اسم البديل	م.م. دريد رسمي محمد	e-mai الاميل	duradalkaisy@uoanbar.edu.iq
Scientific Committee Approval Date تاريخ موافقة اللجنة العلمية		Version Number رقم الكورس	1

Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

Prerequisite module مادة اساسية تدرس قبلها	None	Semester الفصل الدراسي	
Co-requisites module مادة دراسية تدرس معها مشتركة	None	Semester الفصل الدراسي	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Objectives أهداف المادة الدراسية	<p>Course objectives</p> <p>Introducing the student to the planet Earth, its components and its history since its inception, the formation of the universe to the present day, what are the events and forces that contributed to making it in its current form, and how to benefit from its components</p>
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<p>Cognitive goals</p> <p>A 1- How did the earth form? A 2- What is the Earth made of? a3- What are the forces acting on it? A4- Economic materials and elements A 5- Earth study methods</p> <p>B - The soft skills objectives of the course.</p> <p>B1 - Building students' imaginative abilities B2 - Providing students with reasoning skills B3 - Developing the students' analytical and research side</p>
Indicative Contents المحتويات الإرشادية	<p>Emotional and value goals</p> <p>1-Expanding the student's awareness of the size of the variables in the earth</p> <p>2- Supporting his imagination to comprehend the enormous time for the formation of the earth and the events that passed over it</p>

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	<p>1-Developing the student's ability to deal with the various means of technology</p> <p>2- Developing the student's ability to deal with the calculator and the Internet and how to find information</p> <p>3-Developing the student's ability to deal with multimedia</p> <p>4- Developing the student's ability to dialogue and discuss and express his opinions and perceptions</p>
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Student Workload (SWL)

الفصل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	64	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	86	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	5.7
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	150		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5 and 10	
	Assignments	2	10% (10)	2 and 12	
	Projects / Lab.	1	10% (10)	Continuous	
	Report	1	10% (10)	13	
Summative assessment	Midterm Exam	2hr	10% (10)	7	
	Final Exam	3hr	50% (50)	16	
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly+Lab Syllabus)

	Material Covered
Week 1	General introduction to geology
Week 2	Earth coverings
Week 3	Earth's structure and composition
Week 4	tectonic geology
Week 5	Minerals and crystals
Week 6	Rocks - types of rocks and the rock cycle in nature
Week 7	Exam امتحان
Week 8	Igneous rocks
Week 9	Metamorphic rocks
Week 10	Sedimentary rocks
Week 11	Petroleum geology
Week 12	Earthquakes
Week 13	Volcanoes
Week 14	erosion and weathering
Week 15	Water geology
Week 16	Preparatory week before the final Exam

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	<ul style="list-style-type: none"> - General Natural and Historical Geology / / Dr. easy annualet al - General Geology // Dr. Farooq Al-Omari and others Fundamentals of Environmental Geology / Dr. Emad Mohamed Ibrahim Khalil - General Geology for non-specialty departments / d. Abdel-Hamid Abdel-Mohammed Al-Hadithi Dr.. Jassim Muhammad Hamad Al-Halbousi 	<p style="color: red;">- الكتب المقررة المطلوبة</p> <p style="color: red;">Required textbooks</p>
Recommended Texts مصادر للاطلاع	Essentials of Geology by Stephen Marshak	Recommended books and references (scientific journals, reports)
Websites مواقع الويب	Electronic references, websites Virtual library Library locations in some international universities	

Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C – Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

مدرس المادة / م.م اسامة جاسم محمد

البريد الالكتروني / msc.osamajm@uoanbar.edu.iq

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Analytical chemistry		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code			
ECTS Credits	8		
SWL (hr/sem)	200		
Module Level	1	Semester of Delivery	
Administering Department	Type Dept. Code	College	Type College Code
Module Leader	Rasim Farraj Muslim	e-mail	dr.rasim92hmts@uoanbar.edu.iq
Module Leader's Acad. Title	Assistant professor	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	01/06/2023	Version Number	1.0

Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Objectives أهداف المادة الدراسية	<ol style="list-style-type: none"> 1. The analytical chemistry course is determined according to the study plan prepared in the Applied Chemistry Department. 2. The course aims to introduce the student to the general concepts of the organic compounds and their importance and uses in various fields. 3. It also aims at a detailed study of the different structural compositions and naming principles for the compounds of organic chemistry, by focusing on the compounds. And help the student to know the composition of these substances, including drugs, and to know how interactions occur and the mechanism of interaction.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ul style="list-style-type: none"> - The student should know the general concepts of the compounds of the analytical chemistry curriculum. - That the student is acquainted with the basics and rules of naming, different structural structures and physical properties, and focuses on the same different rings for their vital activity, and recognizes their physical and chemical properties, and that the student distinguishes between the different structural structures. - That the student knows the basic principles of preparation methods - To familiarize the student with the different bases of their interactions. - That the student is aware of the importance of these compounds and their applications.
Indicative Contents المحتويات الإرشادية	<p style="text-align: center;">a- Methods of teaching and learning</p> <ol style="list-style-type: none"> 1- Giving lectures. 2- Using the method of recitation, discussion and solving questions. 3- Giving assignments to students to strengthen them and prepare them for the final and final exams. <p style="text-align: center;">b- Evaluation methods</p> <ol style="list-style-type: none"> 1- Daily and monthly exams 2- Duties 3- In-class exercises

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	<p>Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering types of simple experiments involving some sampling activities that are interesting to the students.</p>
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Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	109	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	7
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	91	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	6
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	200		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	2hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction to qualitative analytical chemistry
Week 2	Methods for the detection of elements and ions
Week 3	Sedimentation methods
Week 4	Methods of separation
Week 5	Macro and micro Qualitative analysis
Week 6	Chromatographic separation column
Week 7	Detection and estimation of items
Week 8	First month exam
Week 9	Introduction to Volumetric Analysis Chemistry
Week 10	Methods for expressing concentrations
Week 11	Solutions, ionic balance and chemical balance
Week 12	Equilibrium constants, inverse reactions and common ion
Week 13	Second month exam
Week 14	Titration
Week 15	Solubility product constant and slightly soluble salts
Week 16	Comprehensive review, applications and problem solving

Delivery Plan (Weekly Lab. Syllabus)

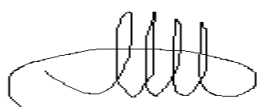
المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Test Reducing Flame
Week 2	Flame test
Week 3	Detection of halogens, nitrogen and sulfur
Week 4	Extraction
Week 5	Solubility
Week 6	Titration methods
Week 7	Chromatography methods

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	Fundamentals of analytical chemistry. 9th Edition by <u>Douglas A. Skoog</u> (Author), <u>Donald M. West</u> (Author), <u>F. James Holler</u> (Author), <u>Stanley R. Crouch</u> (Author). 10 EDITION. July 16, 2021	Yes
Recommended Texts	ANALYTICAL CHEMISTRY: A Fundamental Approach To Modern Separation Techniques. by <u>Stanley Chris (Ph.D)</u> (Author) August 15, 2022	No
Websites	https://www.amazon.com/Fundamentals-Analytical-Chemistry-Douglas-Skoog/dp/0357450396/ref=d_pd_sbs_vft_none_sccl_3_1/145-7711462-5419924?pd_rd_w=CSlfi&content-id=amzn1.sym.3676f086-9496-4fd7-8490-77cf7f43f846&pf_rd_p=3676f086-9496-4fd7-8490-77cf7f43f846&pf_rd_r=7EZR6MGHA0J9A87C0JF0&pd_rd_wg=Kzlql&pd_rd_r=6cd67e00-88f2-4c85-8c5e-a2822ac1d629&pd_rd_i=0357450396&pssc=1	

Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54). The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.



Assist. Prof. Dr. Rasim Farraj Muslim

7 / 6 / 2023

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information				
معلومات المادة الدراسية				
Module Title	Organic chemistry		Module Delivery	
Module Type	Core		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar	
Module Code				
ECTS Credits	8			
SWL (hr/sem)	200			
Module Level	1	Semester of Delivery		1
Administering Department	Type Dept. Code	College	Type College Code	
Module Leader	Rasim Farraj Muslim		e-mail	Dr.rasim92hmts@uoanbar.edu.iq
Module Leader's Acad. Title	Assistant professor		Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)		e-mail	E-mail
Peer Reviewer Name	Name		e-mail	E-mail
Scientific Committee Approval Date	01/06/2023		Version Number	1.0

Relation with other Modules				
العلاقة مع المواد الدراسية الأخرى				
Prerequisite module	None		Semester	
Co-requisites module	None		Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Objectives أهداف المادة الدراسية	<ol style="list-style-type: none">1. The chemistry of organic compounds course is determined according to the study plan prepared in the Medical Physics Department.2. The course aims to introduce the student to the general concepts of the organic compounds and their importance and uses in various fields.3. It also aims at a detailed study of the different structural compositions and naming principles for the compounds of organic chemistry, by focusing on the compounds. And help the student to know the composition of these substances, including drugs, and to know how interactions occur and the mechanism of interaction.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ul style="list-style-type: none">- The student should know the general concepts of the compounds of the organic chemistry curriculum.- That the student is acquainted with the basics and rules of naming, different structural structures and physical properties, and focuses on the same different rings for their vital activity, and recognizes their physical and chemical properties, and that the student distinguishes between the different structural structures.- That the student knows the basic principles of preparation methods- To familiarize the student with the different bases of their interactions.- That the student is aware of the importance of these compounds and their applications.
Indicative Contents المحتويات الإرشادية	<p>a- Methods of teaching and learning</p> <ol style="list-style-type: none">1- Giving lectures.2- Using the method of recitation, discussion and solving questions.3- Giving assignments to students to strengthen them and prepare them for the final and final exams. <p>b- Evaluation methods</p> <ol style="list-style-type: none">1- Daily and monthly exams2- Duties3- In-class exercises

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	<p>Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering types of simple experiments involving some sampling activities that are interesting to the students.</p>
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Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	109	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	7
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	91	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	6
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	200		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	2hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Introduction and principles in organic techniques
Week 2	Chemistry of carbon and hydrogen compounds
Week 3	Concept of energy
Week 4	Organic formulations
Week 5	Reaction relationship and physical properties of organic compounds
Week 6	Alkanes
Week 7	Alkenes
Week 8	First month exam
Week 9	Alkynes

Week 10	Alcohols and phenols
Week 11	Ethers
Week 12	Carbonyl compounds
Week 13	Second month exam
Week 14	Amine derivatives
Week 15	Basic principles in the techniques of organic preparations
Week 16	Comprehensive review, applications and problem solving

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Melting point
Week 2	Boiling point
Week 3	Distillation
Week 4	Extraction
Week 5	Detection of organic compounds
Week 6	Detection of alcoholic compounds
Week 7	Chromatography methods

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Organic Chemistry , 6th Edition. Robert T. Morrison . 4.3 out of 5 stars 70 ; Organic Chemistry , 7th Edition ; Organic Chemistry Fundamentals (Quick Study Academic).	Yes
Recommended Texts	Introductory Organic Chemistry and Hydrocarbons A Physical Chemistry Approach . 1st Edition. By <u>Caio Lima Firme</u> . Copyright 2020.	No
Websites	https://www.amazon.com/Organic-Chemistry-Morrison-Boyd/dp/8131704815	

Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors

	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.



Assist. Prof. Dr. Rasim Farraj Muslim

3 / 6 / 2023

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	General Botany		Module Delivery
Module Type	Basic		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input checked="" type="checkbox"/> Seminar
Module Code	ENVI-11003		
ECTS Credits	7		
SWL (hr/sem)	175		
Module Level	1	Semester of Delivery	
Administering Department	Type Dept. Code	College	Type College Code
Module Leader	Name: Rabah Salim Shareef	e-mail	eq.rabah.s.shareef@uoanbar.edu.iq
Module Leader's Acad. Title	Asset. Professor	Module Leader's Qualification	Ph.D.
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name: Rabah Salim Shareef	e-mail	eq.rabah.s.shareef@uoanbar.edu.iq
Scientific Committee Approval Date	01/06/2023	Version Number	1.0

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	Plant Taxonomy	Semester	3
Co-requisites module	Plant Environmental	Semester	4

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p>Module Objectives أهداف المادة الدراسية</p>	<p>Here are the module objectives for plant taxonomy based on the search results:</p> <ol style="list-style-type: none"> 1. Understand the basic concepts of botany in relation to its allied core courses 2. Perceive the significance of microbes and plants for human welfare 3. Work closely with a supervisor regarding the subject matter and content of the selected seminar topic 4. Conduct a research project on a topic of their choice approved by the academic staff 5. Analyze data to determine the general tendency of a character 6. Provide a general introduction to the study of plant structures and functions 7. Emphasize the aspects of plant structures and functions as they relate to the natural survival and growth of plants
<p>Module Learning Outcomes مخرجات التعلم للمادة الدراسية</p>	<p>Here are the module learning outcomes for plant taxonomy based on the search results:</p> <ol style="list-style-type: none"> 1- Mapping learning outcomes to corresponding competencies 2- Analyzing data to determine the general tendency of a character 3- Working closely with a supervisor regarding the subject matter and content of the selected seminar topic 4- Applying the scientific method to questions in biology by formulating testable hypotheses and gathering data that address these hypotheses 5- Understanding the study of plants in the context of general science
<p>Indicative Contents المحتويات الإرشادية</p>	<p>Indicative content includes the following.</p> <p>Here are the indicative contents for general botany based on the search results:</p> <ol style="list-style-type: none"> 1. Research project approved by the department 2. Basic botanical nomenclature needed to describe plant morphology 3. Collection and identification of native flowering plants of Georgia 4. Study of plants in the context of general science 5. Laboratory content incorporated with lecture content during exams 6. Working closely with a supervisor regarding the subject matter and content of the selected seminar topic 7. Understanding the approach, methods, research goals, evidence, and terminology of plant systematics

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

<p>Strategies</p>	
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	Type something like: The main strategy that will be adopted in delivering this module is to encourage students' participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes, interactive tutorials and by considering types of simple experiments involving some sampling activities that are interesting to the students.
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Student Workload (SWL)			
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	79	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	96	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	6.4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	125		

Module Evaluation					
تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	1hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي النظري	
	Material Covered

Week 1	<ul style="list-style-type: none"> • Plant overview • General characteristics of the plant • The foundations of distinguishing between the plant kingdom and the animal kingdom
Week 2	Introduction for non-flowering plants:
Week 3	Flowering plants: General characteristics of flowering plants, Division of flowering plants
Week 4	Seeds and their germination.
Week 5	Plant parts: root, stem, leaves (definition - functions)
Week 6	Plant parts: Flower, Inflorescences, fruits, Seeds
Week 7	Reproduction in flowering plants: Asexual reproduction in flowering plants.
Week 8	Reproduction in flowering plants: Sexual reproduction in flowering plants, Pollination and fertilization in flowering plants, Life cycle of flowering plants
Week 9	Definition of plant physiology and its importance in agricultural production, Photosynthesis
Week 10	Respiration, transpiration and gastrulation in plants
Week 11	Water relations in the plant
Week 12	The role of basic elements in plant nutrition
Week 13	Introduction to plant anatomy; vascular plant organization : Shoot apical meristems; root apical meristems
Week 14	Epidermis, Parenchyma; collenchyma; sclerenchyma
Week 15	Xylem, Phloem
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Lab 1: Germination for some seeds
Week 2	Lab 2: Electron microscope: parts and function
Week 3	Lab 3: Identify the Plant Cell
Week 4	Lab 4: Identify the leaf tissues
Week 5	Lab 5: Identify the stem tissues
Week 6	Lab 6: Identify the fruits tissues
Week 7	Lab 7: Identify the flower parts

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Botany Illustrated - Introduction to Plants, Major Groups	No
Recommended Texts	Anatomy of Flowering Plants - Book	No
Websites		

Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required
<p>Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.</p>				

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title اسم المادة او الوحدة	GENERAL PHYSICS الفيزياء العامة		Module Delivery
Module Type نوع الوحدة	Base		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code كود الوحدة			
ECTS Credits	6		
SWL (hr/sem)	150		
Module Level المرحلة الدراسية	1	Semester of Delivery الكورس الدراسي	
Administering Department القسم	Department of Environment قسم البيئة	College الكلية	كلية العلوم التطبيقية - هيت College of Applied Sciences - Heat
Module Leader مسؤول الوحدة	انمار شاكرا جاسم	e-mail الاميل	anmar90.a9@uoanbar.edu.iq
Module Leader's Acad. Title العنوان الاكاديمي لمسؤول الوحدة	assistant teacher مدرس مساعد	Module Leader's Qualification مؤهلات مسؤول الوحدة	ماجستير Master's
Module Tutor مدرس مساعد	None	e-mail الاميل	None
Peer Reviewer Name اسم البديل	م.م رفاء عبد الكريم عبدالواحد	e-mail الاميل	rafaa1987abd@uoanbar.edu.iq
Scientific Committee Approval Date تاريخ موافقة اللجنة العلمية		Version Number رقم الكورس	1

Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

Prerequisite module مادة اساسية تدرس قبلها	None	Semester الفصل الدراسي	
Co-requisites module مادة دراسية تدرس معها مشتركة	None	Semester الفصل الدراسي	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Objectives أهداف المادة الدراسية	<p>Introduction to Physics: Introduce students to the scope and nature of physics as a fundamental science that seeks to understand the behavior of the physical universe.</p> <p>Mechanics: Develop an understanding of classical mechanics, covering topics such as kinematics, dynamics, Newton's laws of motion, work, energy, momentum, and rotational motion.</p> <p>Thermodynamics: Explore the principles of thermodynamics, including concepts such as temperature, heat, laws of thermodynamics, thermal expansion, heat transfer mechanisms, and thermodynamic processes.</p> <p>Waves and Vibrations: Study the properties of waves and oscillations, including wave mechanics, wave interference, standing waves, sound waves, and the behavior of waves in different mediums.</p> <p>Electromagnetism: Introduce the fundamentals of electricity and magnetism, including electric charge, electric fields, Gauss's law, electric potential, capacitance, current, resistance, Ohm's law, magnetic fields, electromagnetic induction, and Maxwell's equations.</p> <p>Optics: Explore the principles of geometric and wave optics, covering topics such as reflection, refraction, lenses, mirrors, diffraction, polarization, and optical instruments.</p> <p>Modern Physics: Introduce key concepts of modern physics, including special relativity, quantum mechanics, atomic structure, nuclear physics, and particle physics.</p> <p>Problem-Solving Skills: Develop problem-solving skills by applying physics principles to solve quantitative and qualitative problems in various contexts.</p> <p>Experimental Skills: Provide opportunities for hands-on laboratory experiments to reinforce theoretical concepts, develop experimental techniques, and enhance understanding of the scientific method.</p> <p>Critical Thinking and Analytical Skills: Foster critical thinking</p>
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	<p>abilities by encouraging students to analyze and interpret physical phenomena, evaluate experimental results, and draw logical conclusions based on evidence.</p> <p>Mathematical Proficiency: Enhance mathematical proficiency by applying mathematical techniques such as algebra, trigonometry, calculus, and vector analysis to solve physics problems.</p> <p>Interdisciplinary Connections: Highlight interdisciplinary connections between physics and other fields such as engineering, chemistry, biology, environmental science, and astronomy.</p> <p>Communication Skills: Improve communication skills through written reports, oral presentations, and discussions of physics concepts, experiments, and applications.</p> <p>Ethical and Societal Implications: Discuss ethical and societal implications of physics-related technologies, scientific discoveries, and environmental issues.</p>
<p>Module Learning Outcomes</p> <p>مخرجات التعلم للمادة الدراسية</p>	<p>At the end of the course the student is expected to be able to:</p> <ol style="list-style-type: none"> 1. Dealing with physical unit systems, distinguishing between physical quantities and vector analysis and their applications. 2. Using linear motion relationships, Newton’s laws of motion, and the theory of flame-energy and its transformations in various applications. 3. Determine the center of mass of a system of objects and calculate its speed and acceleration. 4. Distinguish between types of collisions. 5. Distinguish between linear, circular, and rotational movements, and between moments of inertia and torques of coupling. 6. Applying the laws of conservation of energy and linear and angular momentum. 7. Distinguish between moments of inertia and moments of coupling, and calculate the moments of inertia for rigid bodies containing common shapes. 8. Determine the center of gravity, and achieve the conditions for static equilibrium. 9. Use the law of universal gravitation on movement near the Earth's surface and on the movement of the planets.
<p>Indicative Contents</p> <p>المحتويات الإرشادية</p>	

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	<p>1-Developing the student's ability to deal with the various means of technology</p> <p>2- Developing the student's ability to deal with the calculator and the Internet and how to find information</p> <p>3-Developing the student's ability to deal with multimedia</p> <p>4- Developing the student's ability to dialogue and discuss and express his opinions and perceptions</p>
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Student Workload (SWL)

الفصل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	64	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	86	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	5.7
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	150		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5 and 10	
	Assignments	2	10% (10)	2 and 12	
	Projects / Lab.	1	10% (10)	Continuous	
	Report	1	10% (10)	13	
Summative assessment	Midterm Exam	2hr	10% (10)	7	
	Final Exam	3hr	50% (50)	16	
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly+Lab Syllabus) المنهاج الاسبوعي النظري والعملي

	Material Covered
Week 1+2	Physical quantities. Prime and non-prime quantities - standard quantities - units. Vectors: General properties of vectors - scalar product - cross product - unit vector - decomposition of vectors into components.
Week 3+4	Motion in a straight line: Motion in one dimension - Newton's relations for constant acceleration - Motion in two dimensions - Projectiles - Motion in a circular path with constant speed.
	exam
Week 5+6	Newton's Laws: Description of Newton's laws of motion - static friction - kinetic friction - centripetal force - types of forces in nature - applications of Newton's laws of motion.
Week 7+8	Work and energy: kinetic energy - work - work-energy theory, work resulting from movement in one direction and with a constant force - work resulting from a variable force - spring forces - power - potential energy - conservative forces - work resulting from conservative forces - non-conservative forces - Potential energy and equilibrium in one dimension - conservation of mechanical energy - applications to conservation of mechanical energy - internal energy - formulation of the law of conservation of total energy - mass and energy - quantization of energy.
Week 9+10	Linear momentum and collisions: center of mass - movement of the center of mass - Newton's second law of a system of particles - linear momentum of a system of particles - conservation of linear momentum - collisions - thrust and linear momentum - elastic and inelastic collisions in one and two dimensions.
	exam
Week 11+12	Rotation of solid bodies and angular momentum: translation and rotation - rotational variables - rotation with constant angular acceleration - the relationship between linear and angular variables - rotational kinetic energy - calculation of rotational moment of inertia - torque - Newton's second law of rotation - roll - angular momentum - conservation of angular momentum - quantization Angular momentum.
Week 13+14	Static equilibrium: conditions for static equilibrium - center of gravity - applications - static equilibrium in an accelerating frame - stable rotational equilibrium. The law of general gravitation: the theory of the shell - the principle of superposition - gravitational potential energy - escape velocity - classification of orbits in relation to energy.

Learning and Teaching Resources		
مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	1- "Physics for Scientists and Engineers" by Paul A. Tipler and Gene Mosca 2- "Fundamentals of Physics" by David Halliday, Robert Resnick, and Jearl Walker 3- "University Physics" by Hugh D. Young and Roger A. Freedman 4- "Conceptual Physics" by Paul G. Hewitt 5- "Physics: Principles with Applications" by Douglas C. Giancoli	- الكتب المقررة المطلوبة Required textbooks
Recommended Texts مصادر للاطلاع		
Websites مواقع الويب		

Grading Scheme				
مخطط الدرجات				
Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
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مدرس المادة / م.م. أنمار شاكر جاسم

البريد الإلكتروني / anmar90.a9@uoanbar.edu.iq

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	اللغة العربية		Module Delivery
Module Type	S		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code			
ECTS Credits	4		
SWL (hr/sem)	100		
Module Level	الأول	Semester of Delivery	
Administering Department	البيئة	College	كلية العلوم التطبيقية _ هيت
Module Leader	م. د سوزان عبدالواحد عبدالجبار	e-mail	Suzan2018@uoanbar.edu.iq
Module Leader's Acad. Title		Module Leader's Qualification	
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date		Version Number	

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module		Semester	
Co-requisites module		Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p>Module Objectives أهداف المادة الدراسية</p>	<p>Explaining the importance of the Arabic language and its benefits for university students in terms of:</p> <ul style="list-style-type: none">• Introducing the parts of speech in the Arabic language from sound to context• Introducing the sections and types of the Qur'anic sentence.• Definition of parsing and its connection to the grammatical meaning in the types of Quranic sentences.• Defining the structure within Quranic expression.• Introducing progress and delay in Quranic expression, its types and causes• Introducing the scientific miracle within the Qur'anic text.• Introducing the method of semantic analysis of the Qur'anic text.• Introducing the method of semantic analysis of poetic literary text.• Introducing some grammatical topics in the language, such as the indefinite article, knowledge, knowledge, and number
<p>Module Learning Outcomes مخرجات التعلم للمادة الدراسية</p>	<p>Study the types of Qur'anic sentences</p> <ul style="list-style-type: none">• Study of parsing and its connection to meaning within the types of Quranic sentences• Study grammatical topics when analyzing the parsing of a Qur'anic sentence.• Studying the scientific miracle within the Qur'anic text• Study the semantic analysis of the Qur'anic context
<p>Indicative Contents المحتويات الإرشادية</p>	<ul style="list-style-type: none">• For the student to become familiar with the types of Qur'anic sentences• That the student acquires the ability to analyze the parsing of a Qur'anic sentence.• The student will learn the ability to understand Arabic language topics through analyzing the parsing of Qur'anic sentences

	<ul style="list-style-type: none"> • For the student to become familiar with the scientific miracle and its types within the Qur’anic text. • For the student to become familiar with the characteristics of the word structure within the Qur’anic expression in terms of definition, indefiniteness, introduction, delay, mention, and deletion, and the reason for choosing the word structure in terms of nominal and verbal terms, and modulation or variation in verb tenses within the Qur’anic context.
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Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	<p>Teaching and learning methods</p> <p>Whiteboard – display screen</p>

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	37	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	10			
	Assignments	10			
	Projects / Lab.				
	Report	20			
Summative assessment	Midterm Exam	10			
	Final Exam	50			
Total assessment					

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introducing the parts of speech in the Arabic language from sound to context
Week 2	Definition of the sentence and its types with applied examples in parsing
Week 3	The verbal sentence and its components with applied examples of parsing, intransitive and transitive verbs, the subject and types of subject, and when to delete the subject and the reasons for deleting it.
Week 4	The nominal sentence and its components with applied examples of parsing, types of subject, types of predicate, deleting the predicate, introducing it, and reasons for introducing and delaying it.
Week 5	The semi-sentence and its components, what is related to the adverb and the adverb, the reasons for its connection, and the types of what is related to it, with applied examples in parsing.
Week 6	Memorizing and interpreting the first ten verses of Surat Al-Kahf
Week 7	Semantic analysis of the first ten verses of Surat Al-Kahf
Week 8	Memorizing and interpreting the first five verses of Surat Al-Hujurat
Week 9	Semantic analysis of the first five verses of Surat Al-Hujurat
Week 10	Indefinite nouns and knowledge, types of knowledge (science)
Week 11	Explanation of the topic of the number, and the sections of the number, with applied examples
Week 12	Memorizing and analyzing eight verses in the poem Al-Hamas by the poet Abu Al-Tayeb Al-Mutanabbi with the life of the poet
Week 13	Memorizing and analyzing ten lines from the poem of the Iraqi poet Badr Shaker Al-Sayyab along with the poet's life
Week 14	The structure of the singular in the Holy Qur'an, the singular between the nominal and the actual
Week 15	Submitting and delaying, its parts and reasons
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Lab 1:
Week 2	Lab 2:
Week 3	Lab 3:
Week 4	Lab 4:
Week 5	Lab 5:
Week 6	Lab 6:
Week 7	Lab 7:

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	The Holy Qur'an, the book explaining Ibn Aqeel, the Arabic language curriculum for non-specialists, the book of rhetoric and application, Quranic interpretations	نعم
Recommended Texts		
Websites		

Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
عنوان الوحدة	حقوق أنسان و ديمقراطية		تسليم الوحدة
نوع الوحدة	جوهر		<input checked="" type="checkbox"/> نظرية <input checked="" type="checkbox"/> محاضرة <input checked="" type="checkbox"/> مختبر <input type="checkbox"/> درس تعليمي <input type="checkbox"/> عملي <input type="checkbox"/> ندوة
كود الوحدة	UoB12345		
انتمانات ECTSC	8		
SWL (hr/sem)	200		
مستوى الوحدة	1	فصل دراسي من التسليم	1
الادارة الادارية	البيثة	كلية	Type College Code
قائد الوحدة	أ.م. عبد صبار عبد الرحيم		e-mail Abd .s.1971@uoanbar.edu.iq
عنوان وحدة قائد الوحدة . اكا د .	استاذ مساعد	تاهيل قائد الوحدة	Ph.D.
وحدة المعلم	Name (if available)	e-mail	E-mail
اسم المراجع الزميل	Name	e-mail	E-mail
تاريخ موافقة اللجنة العلمية	01/06/2023	رقم الاصدار	1.0

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
وحدة المتطلبات المسبقة	لا احد	نصف السنة	
وحدة المتطلبات المشتركة	لا احد	نصف السنة	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p>Module Objectives أهداف المادة الدراسية</p>	<ol style="list-style-type: none">1. Introducing the student to human rights and democracy and their advantages2. Knowledge of the historical development of human rights and democracy3. The relationship between the public rights and freedoms of individuals4. Learn about the democratic system in Iraq (pros and cons)5. Knowing corruption, its causes, and ways to address it6. Getting to know human rights in the Holy Qur'an and the Sunnah of the Prophet7. Identify the most important organizations working in the field of human rights8. Learn about the negative and positive effects of technological progress on public freedoms
<p>Module Learning Outcomes مخرجات التعلم للمادة الدراسية</p>	<ol style="list-style-type: none">1. Full knowledge of democracy and human rights2. Knowing the general conditions for the success of a democratic system3. What are the components and pillars of democracy?4. The roots of democracy in Iraq5. The advantages and disadvantages of the democratic system6. Accuracy and knowledge of some political terminology7. Understanding that Islam was the first to establish the foundations of freedom and human rights
<p>Indicative Contents المحتويات الإرشادية</p>	<p>Includes instructional content</p> <p>Introducing and training students on democracy and freedom and how to express their opinions in a transparent and systematic manner so that their opinions are positive and the possibility of interaction with them by the concerned party or parties and the possibility of supporting these opinions by the government and public opinion, as the more opinions are expressed in a civilized manner, the more influential their echo is in all political circles. At various levels, the main goal of this article is to create a generation that is aware and capable of leading the country in a democratic manner that believes in one opinion and the other, in addition to knowing the rights of every human being and how to exercise them and benefit from them in order to enjoy public life and live freely and safely, as well as understanding that every human being has duties as well as rights and the duty to implement them. What should he do before demanding his rights?</p>

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

الاستراتيجيات	Creating a conscious generation that knows well its money and what it owes, to contribute to building a civilized state, to feel an absolute sense of belonging to this state, regardless of the circumstances and situations it is going through, and to preserve public property as if it were private, in addition to raising the spirit of good citizenship, in addition to enhancing cooperation among citizens themselves.
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Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	109	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	7
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	91	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	6
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	200		

Module Evaluation

تقييم المادة الدراسية

		الوقت / الرقم	الوزن / العلامات	الاسبوع المستحق	التعليم ذو الصلة pwdgm
التكويني تقدير	الاختبارات	2	10% (10)	5 and 10	LO #1, #2 and #10, #11
	تعيينات	2	10% (10)	2 and 12	LO #3, #4 and #6, #7
	المشاريع او المعمل	1	10% (10)	Continuous	All
	تقرير	1	10% (10)	13	LO #5, #8 and #10
تلخيص تقدير	اختبارات نصف السنة	2hr	10% (10)	7	LO #1 - #7
	امتحان نهائي	3hr	50% (50)	16	All
التقييم الاجمالي			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	The importance of studying human rights and their concept in addition to their characteristics
Week 2	Human rights in Islamic law
Week 3	Generations and forms of human rights
Week 4	Human rights guarantees
Week 5	Public organizations in the fields of human rights
Week 6	Administrative corruption, its concept and definition, types of corruption
Week 7	Causes of corruption and treatments for corruption
Week 8	The concept of freedom
Week 9	Electoral systems
Week 10	Distinguishing elections from similar systems
Week 11	Stages of the democratic system in Iraq, the most important articles of the Iraqi Constitution 2005
Week 12	Fundamental freedoms and individual freedoms
Week 13	Elections and democracy
Week 14	Some political terms (constitution, federal court, presidential and parliamentary system....)
Week 15	Terms (secularism, aristocracy, liberalism, bureaucracy, imperialism)
Week 16	Review to prepare for the final exam

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	متوفر في المكتبة
النصوص المطلوبة	Human rights, democracy and public freedoms Prof. Dr. Maher Sabry Kazem	نعم
مستحسن نصوص	History of the emergence of human rights concepts 2006 Raed Suleiman Al-Faqir	No
مواقع الويب		

Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
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MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	علم البيئة	Module Delivery	
Module Type	اساسي (core)	<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar	
Module Code			
ECTS Credits			
SWL (hr/sem)			
Module Level			
Administering Department	مدرس مساعد	College	
Module Leader	مصطفى محمود يعقوب علي	e-mail	mustafa.yacoub1980@uoanbar.edu.iq
Module Leader's Acad. Title		Module Leader's Qualification	
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date		Version Number	

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module		Semester	
Co-requisites module		Semester	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p>Module Objectives أهداف المادة الدراسية</p>	<ul style="list-style-type: none">• Familiarity with the concept of the environment, its nature, classifications, resources, and sustainable development.• Learn about the concept of the ecosystem, its types, its balance, the movement of food within it, and its importance.• Identifying the most important environmental factors and their impact on the ecosystem, environmental laws and their importance to the ecosystem.• Know the aquatic environment, the importance of water, its characteristics and sources, the marine environment and its origins.• Familiarity with soil characteristics, their importance, formation factors and components, the risks that threaten agricultural soil, and how to increase the area of the agricultural plot.• Follow the vital cycles that occur in the ecosystem, including the water cycle - carbon, nitrogen, phosphorus, and sulfur, and their importance in environmental balance.• Exploring the most important industrial environmental changes, their causes and risks, such as: global warming, the ozone hole, black clouds, acid rain, drought, and desertification. <p>Reaching the concept of energy, knowing its traditional sources, and learning about alternative sources of energy (solar energy, its uses, and the most important ways to convert it into electrical energy - wind energy - tidal energy - geothermal energy - and energy from garbage and waste</p>
<p>Module Learning Outcomes مخرجات التعلم للمادة الدراسية</p>	<ul style="list-style-type: none">• Familiarity with the concept of the environment, its nature, classifications, resources, and sustainable development.• Deducing the concept of the ecosystem, its types, its balance, the movement of food within it, and the importance of studying it• Classification of the most important environmental factors and their impact on the ecosystem.• Identify environmental laws and their importance to the

	<p>ecosystem.</p> <ul style="list-style-type: none"> • Study of the biosphere and its components. • Studying the soil, its importance and formation factors - its components, the risks that threaten agricultural soil, and how to increase the area of the agricultural plot. • Tracking the vital cycles that occur in the ecosystem, including the water cycle - carbon, nitrogen, phosphorus, and sulfur. • Studying the most important industrial environmental changes, their causes, consequences, and how to address them
<p>Indicative Contents المحتويات الإرشادية</p>	<ul style="list-style-type: none"> • Tracking the cycles of some elements in nature. • Using the international information network to identify the most important environmental problems • And how to treat it. • Using references in preparing research

<p>Learning and Teaching Strategies استراتيجيات التعلم والتعليم</p>	
<p>Strategies</p>	<ul style="list-style-type: none"> • Thinking and solving environmental problems. • Interest in preserving the environment and spreading awareness about it. • •Using social networking sites to raise awareness of environmental problems and ways to solve and overcome them. • •Identify the most important environmental problems in the environment surrounding the college and propose solutions To treat it. • Collaboration and subsequent social skills among colleagues

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	109	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	7
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	91	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	6
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	200		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	2	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	2hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment					100% (100 Marks)

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	The concept of the environment, its nature, classifications, resources, and sustainable development.
Week 2	The concept of the ecosystem, its types, its balance, the movement of • • food within it, and the importance of studying it
Week 3	The most important environmental factors and their impact on the ecosystem.
Week 4	Environmental laws and their importance to the ecosystem.

Week 5	The biosphere and its components.
Week 6	The aquatic ocean, the importance of water, its characteristics and sources, the marine environment and its origins
Week 7	The atmosphere, its constituent layers, and its importance.
Week 8	The dry ocean, the Earth's layers, and the characteristics of each layer
Week 9	Soil, its importance and formation factors - its components, the risks that threaten agricultural soil, and how to increase the area of the agricultural area
Week 10	The biological cycles that occur in the ecosystem, including the water - carbon and nitrogen cycle
Week 11	The biological cycles that occur in the ecosystem, including the phosphorus and sulfur cycles
Week 12	The most important industrial environmental changes, including global warming - its causes and effects, the ozone hole - its causes and risks, the black cloud - its causes and dangers, acid rain - its causes and effects, drought and its causes, and desertification - its causes and risks.
Week 13	The concept of energy and its traditional sources (oil - secondary extraction - oil rocks - tar sands - coal oil - natural gas – coal)
Week 14	Alternative sources of energy (solar energy, its uses, and the most important methods of converting it into electrical energy - wind energy - and tidal energy)
Week 15	Alternative sources of energy (geothermal energy and energy from garbage and waste(
Week 16	Preparatory week before the final Exam

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	The first laboratory: learning about the method of estimating pH
Week 2	Second laboratory: Identifying the method for estimating electrical conductivity
Week 3	Third laboratory: Identify some methods of estimating productivity
Week 4	Fourth laboratory: Identifying the method of estimating soil texture
Week 5	Fifth laboratory: Learn how to determine the soil's need from the C/N ratio
Week 6	Sixth laboratory: Learn how to classify agricultural soil and survey it morphologically and taxonomically
Week 7	Seventh laboratory: measuring some pollutants in the atmosphere

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Lectures by Professor Dr. Mustafa Mahmoud Al-Fahdawi	
Recommended Texts	Basics of soil science	
Websites	Scientific Researcher, Iraqi electronic scientific journals, researchgate	

Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
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MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title اسم المادة او الوحدة	computers حاسبات	Module Delivery	
Module Type نوع الوحدة	Base	<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> S Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar	
Module Code كود الوحدة			
ECTS Credits			
SWL (hr/sem)			
Module Level المرحلة الدراسية	1		
Administering Department القسم	Department of Environment قسم البيئة	College الكلية	كلية العلوم التطبيقية - هيت College of Applied Sciences - Heet
Module Leader مسؤول الوحدة	م.م ابراهيم خليل سعود	e-mail الاميل	ibrahem.abomusab@uoanbar.edu.iq
Module Leader's Acad. Title العنوان الاكاديمي لمسؤول الوحدة	assistant teacher مدرس مساعد	Module Leader's Qualification مؤهلات مسؤول الوحدة	ماجستير Master's
Module Tutor مدرس مساعد	None	e-mai الاميل	None
Peer Reviewer Name اسم البديل		e-mai الاميل	
Scientific Committee Approval Date تاريخ موافقة اللجنة العلمية		Version Number رقم الكورس	1

Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

Prerequisite module مادة اساسية تدرس قبلها	None	Semester الفصل الدراسي	
Co-requisites module مادة دراسية تدرس معها مشتركة	None	Semester الفصل الدراسي	

Module Aims, Learning Outcomes and Indicative Contents

أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

Module Objectives أهداف المادة الدراسية	<p>C1 - Knowledge of what computers are and their capabilities and uses.</p> <p>2- Identify the components of personal computers.</p> <p>3- Learn the basics of operating systems and deal with them.</p> <p>4- General knowledge of computer software types.</p> <p>5- The ability to use computer software to raise efficiency and increase individual productivity.</p> <p>6- Recognizing the use of computers as an educational tool.</p> <p>7- Get acquainted with the ready-made educational programs.ourse objectives</p>
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<p>A- Cognitive goals:</p> <p>1- Identify the physical components of a computer and their connections.</p> <p>2- Getting acquainted with computer accessories and their connections.</p> <p>3- Use and familiarize yourself with the keyboard.</p> <p>4- Getting to know the Windows system.</p> <p>B- Subject-specific skills:</p> <p>1- Providing the student with additional information about electronic developments.</p> <p>2- Introducing the student to the Microsoft Office package.</p> <p>3- Developing students' skills in working on the computer.</p>
Indicative Contents المحتويات الإرشادية	<p>1- Statement of the concept of e-learning.</p> <p>2- Developing students' skills in using computers in their academic and practical lives.</p> <p>3- Discover everything new in the computer world.</p> <p>4- Training the students properly on how to use the computer</p>

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	<p>1-Developing the student's ability to deal with the various means of technology</p> <p>2- Developing the student's ability to deal with the calculator and the Internet and how to find information</p> <p>3-Developing the student's ability to deal with multimedia</p> <p>4- Developing the student's ability to dialogue and discuss and express his opinions and perceptions</p>
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Student Workload (SWL)

الفصل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل		Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل		Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل			

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	15% (15)	5 and 10	
	Assignments	2	15% (15)	2 and 12	
	Projects / Lab.	0	0	Continuous	
	Report	1	10% (10)	13	
Summative assessment	Midterm Exam	2hr	10% (10)	7	
	Final Exam	3hr	50% (50)	16	
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	Introduction to computer basics
Week 2	What is a computer
Week 3	Computer's components
Week 4	Windows 10 operating system
Week 5	Microsoft Office program
Week 6	Run Microsoft Word
Week 7	Exam
Week 8	Entering texts and dealing with the file
Week 9	Text editing
Week 10	Dealing with tables
Week 11	Page setup and printing
Week 12	Keyboard shortcuts
Week 13	Excel program
Week 14	PowerPoint program
Week 15	Internet networks
Week 16	Preparatory week before the final Exam

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Fundamentals of computer and its office applications - Part I /a.m.d. Ziyad Muhammad Abboud, Prof. Dr. Ghassan Hamid, Prof. Dr. Amir Hussein Computer Applications / Prof. Dr. Haider Nema Bakhit Microsoft Windows 10 system Word 2010 Microsoft Corporation	- الكتب المقررة المطلوبة Required textbooks
Recommended Texts مصادر للاطلاع	A workshop on the topic Refer to the websites	Recommended books and references (scientific journals, reports)
Websites مواقع الويب	lectronic references, websites Virtual library Library locations in some international universities	

Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C – Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

مدرس المادة / م.م ابراهيم سعود خليل

البريد الالكتروني / ibrahem.abomusab@uoanbar.edu.iq

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title اسم المادة او الوحدة	Mathematics		Module Delivery
Module Type نوع الوحدة	Base		<input checked="" type="checkbox"/> Theory <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code كود الوحدة			
ECTS Credits	4		
SWL (hr/sem)	100		
Module Level المرحلة الدراسية	1	Semester of Delivery الكورس الدراسي	
Administering Department القسم	Department of Environment	College الكلية	كلية العلوم التطبيقية - هيت College of Applied Sciences - Heat
Module Leader مسؤول الوحدة	م.م. ميثاق عبدالكريم عبدالواحد	e-mail الاميل	Methaq90alheety@uoanbar.edu.iq
Module Leader's Acad. Title العنوان الاكاديمي لمسؤول الوحدة	assistant teacher مدرس مساعد	Module Leader's Qualification مؤهلات مسؤول الوحدة	ماجستير Master's
Module Tutor مدرس مساعد	None	e-mai الاميل	None
Peer Reviewer Name اسم البديل		e-mai الاميل	
Scientific Committee Approval Date تاريخ موافقة اللجنة العلمية		Version Number رقم الكورس	1

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module مادة أساسية تدرس قبلها	None	Semester الفصل الدراسي	
Co-requisites module مادة دراسية تدرس معها مشتركة	None	Semester الفصل الدراسي	

Module Aims, Learning Outcomes and Indicative Contents	
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	<ol style="list-style-type: none"> 1. A student's acquisition of the concept of words and mathematical logic and ways of dealing with them algebraically. 2. Clarify the concept of sets, relationships, functions and links between them and theories related to them.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<p>Upon completing this course, students will:</p> <ol style="list-style-type: none"> 1. An ability to apply knowledge of mathematics, science and engineering. 2. Evaluate the indefinite and improper integrals by using different integration techniques. 3. Identify the definition and properties associated with definite integrals. 4. Evaluate integrals using the method of substitution. 5. Solve problems involving applications of integrals including finding volume of solids of revolution and area between curves. 6. Discover determinants and matrices and their properties. Learn Crammer rule for solving a set of matrix system.
Indicative Contents المحتويات الإرشادية	<ol style="list-style-type: none"> 1. Familiarity with basic mathematical concepts and principles required for all branches of mathematics. 2. Recognize the importance of integration and its applications. 3. Knowledge of the concept of specific values and related issues. 4. Studying methods of finding integration and identifying the most appropriate method.

Learning and Teaching Strategies

Strategies	<ol style="list-style-type: none"> 1. Thinking creatively and critically. 2. Talk with a partner or in a small group. 3. Express ideas with linear activities. 4. Explore personal positions and values through debate, argument, and discussion. 5. Meditation in the educational process
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Student Workload (SWL)

الفصل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	48	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	3.2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	52	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	3.5
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5 and 10	
	Assignments	2	10% (10)	2 and 12	
	Projects / Lab.	1	10% (10)	Continuous	
	Report	1	10% (10)	13	
Summative assessment	Midterm Exam	2hr	10% (10)	7	
	Final Exam	3hr	50% (50)	16	
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly+Lab Syllabus)

المنهاج الاسبوعي النظري والعملي

	Material Covered
Week 1	The Real numbers, Slope, Equation of straight line, function
Week 2	Even and odd, Inequalities
Week 3	Domain , range and Sketch
Week 4	Limits
Week 5	Continuity
Week 6	The Derivative
Week 7	Second and higher derivatives , Derivative of natural logarithm
Week 8	Derivative of a^x , Chain Rule
Week 9	Exam
Week 10	Integration, Definite integration
Week 11	Integration by parts
Week 12	Integration by partial fractions
Week 13	Partial Fraction
Week 14	Area
Week 15	Area between two curves
Week 16	Preparatory week before the final Exam

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	1. Calculus with analytic Geometry, Swokowski, Olinickand Pence, 1994. 2. Calculus, 8th edition (2007) by Howard Anton, (John Wiley & Sons, Inc, New York).	Required textbooks
Recommended Texts مصادر للاطلاع	1. Professors lectures. 2. The internet.	Recommended books and references (scientific journals, reports)
Websites مواقع الويب	Electronic references, websites Virtual library Library locations in some international universities	

Grading Scheme مخطط الدرجات				
Group	Grade	التقدير	Marks %	Definition
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مدرس المادة / م.م. ميثاق عبدالكريم عبدالواحد

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