



MODULES DESCRIPTION

وصف المواد الدراسية
قسم الإنتاج الحيواني

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	English language		Module Delivery
Module Type	Basic		<input checked="" type="checkbox"/> Theory
Module Code	UM 102		<input type="checkbox"/> Lecture
ECTS Credits	2		<input type="checkbox"/> Lab
SWL (hr/sem)	50		<input type="checkbox"/> Tutorial
			<input type="checkbox"/> Practical
			<input type="checkbox"/> Seminar
Module Level	1	Semester of Delivery	One
Administering Department	Animal Production	College	Agriculture
Module Leader	Name: Dr. Ali Aziz Daood	e-mail	ali_izaz@uomisan.edu.iq
Module Leader's Acad. Title	Assist. Prof.	Module Leader's Qualification	Ph.D.
Module Tutor		e-mail	
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	1/10/2024	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			
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أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p>Module Objectives أهداف المادة الدراسية</p>	<p>1-The aim of this course is to provide English learners with integrated language skills such as reading, listening and writing resulting in a level of basic language knowledge.</p> <p>2-This course will focus on grammar rules, basic word knowledge and usage, reading comprehension, reading out of the lesson, and Paragraph writing.</p> <p>3- A student may be able to listen to native speakers and speak English Language.</p> <p>4- A student may be able to write and have creativity in his writing.</p>
<p>Module Learning Outcomes مخرجات التعلم للمادة الدراسية</p>	<p>.1 - Uses expressions of Quantity in elementary level of English.</p> <p>2- Constructs sentences in Present Perfect Tense, Simple Future Tense and Going to Future Tense both in an oral and written task.</p> <p>3- Defines basic Modals and employ them in elementary level of communication and writing skills.</p> <p>4- Translates sentences in elementary level from English to another language.</p> <p>5- Interprets the texts written in elementary level of English.</p>
<p>Indicative Contents المحتويات الإرشادية</p>	<p>Language is a rule-governed behavior. It is defined as the comprehension and/or use of a spoken (i.e., listening and speaking), written (i.e., reading and writing), and/or other communication symbol system (e.g., American Sign Language).</p> <p>Spoken and written language are composed of receptive (i.e., listening and reading) and expressive (i.e., speaking and writing) components.</p> <p>Spoken language, written language, and their associated components (i.e., receptive and expressive) are each a synergistic system comprised of individual language domains (i.e., phonology, morphology, syntax, semantics, pragmatics) that form a dynamic integrative whole</p> <p>Phonology study of the speech sound (i.e., phoneme) system of a language, including the rules for combining and using phonemes.</p> <p>Morphology study of the rules that govern how morphemes, the minimal meaningful units of language, are used in a language.</p> <p>Syntax the rules that pertain to the ways in which words can be combined to form sentences in a language.</p> <p>Semantics the meaning of words and combinations of words in a language.</p>

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	<p>Enable students to recognize:</p> <ol style="list-style-type: none"> 1 - Enabling students to communicate effectively and appropriately in real-life situations. 2 - Enabling students to use the English language effectively for the purpose of study across the curriculum. 3 - Enabling students to develop and integrate the use of the four language skills: reading, listening, speaking and writing. 4 - Enabling students to develop interest in and learn about literature. 5- Enable students to review and reinforce the structure that has already been learned
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Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	32	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	18	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	1
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	50		

Module Evaluation

تقييم المادة الدراسية

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative	Quizzes	2	10% (10)	5 and 10	LO #1, #2 and #10, #11

assessment	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	English preposition
Week 2	Passive voice
Week 3	Negative
Week 4	If clause (conditional) sentences
Week 5	Kinds of sentences
Week 6	A- Simple tense
Week 7	B-compound tense
Week 8	c- complex tense
Week 9	The use of so 'and neither'
Week 10	Singular + plural
Week 11	How to answer causations
Week 12	Number + Roman Numerals
Week 13	Every day sentences
Week 14	The verb to be

Week 15	How to write a composition
	Exam

Learning and Teaching Resources		
مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	Yule, G. (2015). Oxford practice grammar advanced. Oxford University Press. Alexander, L. G. (2019). Longman English grammar practice. Addison Wesley.-	Yes
Recommended Texts	Various university research and dissertations in the English language related to animal productio	
Websites	https://agendaweb.org/listening/dictations.html	

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	Democracy and Human Rights		Module Delivery
Module Type	Basic		<input checked="" type="checkbox"/> Theory
Module Code	UOB104		<input type="checkbox"/> Lecture
ECTS Credits	2		<input type="checkbox"/> Lab
SWL (hr/sem)	50		<input type="checkbox"/> Tutorial
			<input type="checkbox"/> Practical
			<input type="checkbox"/> Seminar
Module Level	1	Semester of Delivery	One
Administering Department	Animal Production	College	Agriculture
Module Leader	Name: Ali Aziz Dawood	e-mail	ali_izaz@uomisan.edu.iq
Module Leader's Acad. Title	Assist. Prof.	Module Leader's Qualification	M.SC.
Module Tutor		e-mail	
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	01/10/2024	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	<p>1- تعريف الطلبة بمفهوم الحرية والديمقراطية ونشأتها.</p> <p>2- تعريف الطلبة بحقوق الإنسان والديمقراطية في الحضارات القديمة.</p> <p>3- تعريف الطلبة بحقوق الانسان في الشرائع والأديان السماوية.</p> <p>4- التأكيد على مميزات وخصائص حقوق الإنسان ومدى تطبيقها في السلطة.</p> <p>5- التأكيد على تطبيق الحرية والديمقراطية بمفهومها الصحيح وفق المنظور المجتمعي.</p>
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<p>1- أن يعرف الطالب مفهوم الحقوق وقوانينها وتطبيقاتها.</p> <p>2- أن يعرف الطالب كيفية المشاركة في نشر الحقوق وتطبيقها بالعمل الواقعي الحقيقي.</p> <p>3- القدرة على استخدام الحقوق وسيلة من أجل التعايش السلمي بين مكونات المجتمع وجميع المخلوقات.</p> <p>4- القدرة على مشاركة الآخرين في نشر هذه الحقوق.</p> <p>5- القدرة على تحليل وتعريف مفهوم الحرية والتمييز بين أنواع مختلفة من الحريات.</p> <p>6- التفاعل مع قضايا الحريات على الصعيدين الوطني والدولي والتأثير في تشكيل الرأي العام.</p>
Indicative Contents المحتويات الإرشادية	<p>الحقوق والحريات الأساسية وغير الأساسية</p> <p>الحقوق والحريات المدنية</p> <p>الحقوق السياسية</p> <p>حقوق الانسان والقانون الدولي الإنساني</p>

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	<p>1- المشاركة بالتحضير في قاعة الدرس</p> <p>2- طريقة الأسئلة والأجوبة في قاعة الدرس</p> <p>3- الواجبات</p> <p>4- التقارير</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	32	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	18	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	1
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	50		

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	تعريف الحرية ومعانيها
Week 2	التمييز بين الحرية والفوضوية
Week 3	دراسة في أهم الحريات المدنية
Week 4	دراسة في أهم الحريات السياسية
Week 5	المقصود بالديموقراطية، البعد التاريخي
Week 6	أشكال الديموقراطية
Week 7	معايير الدولة الديموقراطية
Week 8	الدستور الديموقراطي
Week 9	الدولة وأشكالها
Week 10	المؤسسات التي تحتاجها الدول الديموقراطية
Week 11	الانتخابات الديموقراطية (المفهوم – الشروط – المتطلبات – المقاصد)
Week 12	الاحزاب والنظم الانتخابية
Week 13	جماعات الضغط (ماهية ، وانواعها ، ووسائلها)
Week 14	تمثيل الاقليات في الحكم الديموقراطي
Week 15	امتحان

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Diamond L. & M. F. Plattner, eds., (2009), Democracy. A Reader, Baltimore, Johns Hopkins University Press.	Yes
Recommended Texts	مفهوم الحريات العامة وحقوق الانسان، اطارها التاريخي والفكري والفلسفي، وضماداتها الأساسية	
Websites	http://ghrorg-learning.blogspot.com	

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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MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information			
معلومات المادة الدراسية			
Module Title	Animal Production		Module Delivery
Module Type	Core		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	ANPR123		
ECTS Credits	7		
SWL (hr/sem)	175		
Module Level	1	Semester of Delivery	
Administering Department	Animal Production	College	Agriculture
Module Leader	duaa ali hussain	e-mail	duaaali@uomisan.edu.iq
Module Leader's Acad. Title		Module Leader's Qualification	
Module Tutor		e-mail	
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	1/10 /2024	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	

<p>Module Objectives</p> <p>أهداف المادة الدراسية</p>	<p>Enables the student to gain knowledge:</p> <ol style="list-style-type: none"> 1. The importance of the science of the principles of animal production, which deals in detail with the economic importance of livestock and types of global and local livestock, and their management and care. 2. Studying the types and importance of other farm animals such as buffaloes, sheep and goats, and their management and care.
<p>Module Learning Outcomes</p> <p>مخرجات التعلم للمادة الدراسية</p>	<ol style="list-style-type: none"> 1. Familiarity with general information about animal production and its economic and nutritional importance. 2. Discuss the factors affecting production efficiency and how to improve it. 3. Explain and clarify the obstacles facing livestock and ways to improve it. 4. Introducing students to livestock, their types, and how to care for them. 5. Introducing students to dual-purpose cattle and local and international sheep and goat breeds. 6. Defining how to establish and care for a flock of sheep and goats. 7. Defining the specifications of global and local buffalo and their different breeds. 8. We are introducing students to the importance of poultry projects and meat and egg production. 9. Providing an overview of Farm animals feed materials and the process for preparing balanced nutritional rations. 10. Explanation and clarification of health programs for animals, how to prevent diseases and ways to improve the health of animals and increase their productivity. 11. A detailed explanation of the importance of raising calves and heifers and providing the necessary needs for their rearing. 12. A detailed description of the reproductive system of cows and a statement of its importance in the reproductive process, and how to increase the reproductive efficiency of the animal and increase the birth rate. 13. Explain animal breeding and improvement programs and discuss the importance of breeding, selection, and exclusion of weak animals. 14. A detailed explanation of the importance of camels and the equine species and how to manage and care for them.
<p>Indicative Contents</p> <p>المحتويات الإرشادية</p>	<p>Indicative content includes the following.</p> <ol style="list-style-type: none"> 1. Disseminating the culture of livestock's nutritional and economic importance as a major source of agricultural wealth and having a major role in the Country's economy. 2. Following modern methods and techniques in animal management, milking operations, and large animal slaughterhouses.

	<ol style="list-style-type: none"> 3. Teaching students the role of successful management (human factor or the breeder himself) of small and large ruminant fields. 4. Spreading the culture of benefiting from animal by-products such as manure waste and animal waste, and benefiting from animals in work. 5. Identifying the types of farm animals and the most important projects related to their breeding. 6. Solving administrative problems in cattle, sheep, and goat breeding fields.
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Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	<ol style="list-style-type: none"> 1. Enabling students to think and analyze topics related to the intellectual framework of the Principles of Animal Production subject 2. Enabling students to think and analyze topics related to animal species and the most important projects related to their breeding. 3. Enabling students to think and analyze topics related to identifying administrative problems in animal fields and working to address them. 4. Enabling students to think and analyze to identify the role of management (the role of the human factor or the breeder himself) in the success of animal fields of various types.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	78	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	97	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	6
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	175		

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	الاهمية الاقتصادية للمنتجات الحيوانية
Week 2	الابقار والجاموس :
Week 3	الابقار وانواعها
Week 4	التاسل في الابقار
Week 5	رعاية العجول
Week 6	التغذية
Week 7	انتاج الحليب
Week 8	العمليات الحقلية

Week 9	السجلات
Week 10	المساكن
Week 11	الجاموس
Week 12	الأغنام والماعز:
Week 13	الأهمية الاقتصادية
Week 14	تصنيفها والطرق المتبعة بالتصنيف
Week 15	التناسل
Week 16	امتحان

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الأسبوعي للمختبر (الحقل Filed)

	Material Covered
Week 1	الذهاب الى الحقل الحيواني – اول مرة
Week 2	العمليات الحقلية التي تجري على الحيوانات
Week 3	سلالات الماشية بأنواعها (الحليب – اللحم – ثنائية الغرض)
Week 4	مساكن الحيوانات
Week 5	الذهاب الى الحقل الحيواني – ثاني مرة
Week 6	امتحان فصلي - اول
Week 7	التناسل والبلوغ الجنسي
Week 8	الحمل والولادة
Week 9	الذهاب الى الحقل الحيواني – ثالث مرة
Week 10	تغذية المواليد الحديثة

Learning and Teaching Resources

مصادر التعلم والتدريس

	سلالات الأغنام والماعز	Available in the Library?
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Required Texts	Principles of Animal Production, written by Dr. Muzaffar Nafie Al-Sayegh - Dr. Taha Jassem Al-Taha - Dr. Suhaib Saeed Alwan Al-Zubaidi (1987).	Yes
Recommended Texts	Basics of animal production, written by A. Dr.. Ahmed Suleiman Mahmoud and A. Dr.. Mahmoud Riyad Al Mahdi (2013).	No
Websites	https://nicehatchincubators.com/the-principles-of-poultry-husbandry/	

Grading Scheme				
مخطط الدرجات				
Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
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<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	Analytical Chemistry		Module Delivery
Module Type	Basic		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	ANCH121		
ECTS Credits	7		
SWL (hr/sem)	175		
Module Level	1	Semester of Delivery	
Administering Department	Animal production	College	Agriculture college
Module Leader	Name: Ayat Jawdat Kathem	e-mail	ayat.jawdat@uobasrah.edu.iq
Module Leader's Acad. Title	M.S.C	Module Leader's Qualification	M.S.C
Module Tutor		e-mail	
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	01/10/2024	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	<ul style="list-style-type: none"> The student's knowledge of the scientific foundations of analytical chemistry, including the devices used, chemicals, and the common cause of common tools.

Module Learning Outcomes مخرجات التعلم للمادة الدراسية	Definition the student to Organic chemistry, Properties of the element carbon, Types of chemical bonds . Definition the student to Hybridization. Definition the student to Alkanes , Name them , isomers, physical and chemical properties. Preparation of alkanes, cycloalkanes.
Indicative Contents المحتويات الإرشادية	

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	The modern teaching strategy includes achieving learning objectives in general and teaching chemical concepts in particular, as well as the difficulties students face in understanding and acquiring organic chemistry concepts, and addressing the difficulties by defining organic chemistry concepts and helping students acquire the correct chemical concepts..
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Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	78	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	97	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	6
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	175		

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 Analytical Chemistry and Equivalent Gravimetry
Week 2	Volumetric analysis - solutions - calculations
Week 3	Methods of expressing concentration (molarity, standard, normality, weight and volume ratio)
Week 4	Acids and bases
Week 5	pH - Degree of ionization
Week 6	First exam
Week 7	Hydrolysis of salts - types of salts
Week 8	Buffered Solutions - Guides
Week 9	Setting the equivalence point

Week 10	Oxidation and reduction corrections
Week 11	Volumetric analysis processes
Week 12	Types of corrections
Week 13	Gravimetric analysis - Gravimetric coefficient
Week 14	Precipitating reagents - post-precipitation
Week 15	Second exam
Week 16	

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

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

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts		Yes
Recommended Texts		No

Websites	
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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	Mathematics		Module Delivery
Module Type	Basic		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	STAT124		
ECTS Credits	5		
SWL (hr/sem)	125		
Module Level	1	Semester of Delivery	
Administering Department	Type Dept. Code	College	Type College Code
Module Leader	Ali Abbas Hashim		e-mail ali_abbas@uomisan.edu.iq
Module Leader's Acad. Title		Module Leader's Qualification	
Module Tutor		e-mail	
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	1/10/2024	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	<ul style="list-style-type: none"> • توضيح أهمية علم الاحصاء في مجال جمع البيانات والتعرف على الطرق تبويبها وتمثيلها. • الالمام العلمي بالرموز الإحصائية وطرق التمثيل البياني والنظريات ذات العلاقة بالإحصاء ومقاييسه. • التعرف على اهم التوزيعات الإحصائية ونظرية الاحتمالات. • التعرف على العلاقات المتعلقة بمتغيرين كمقاييس الارتباط والانحدار.

Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ul style="list-style-type: none"> 1- يلم بالطرق الإحصائية الخاصة بالعمليات الزراعية وتنظيمها وعرضها وتحليلها.. 2- يلم بمقاييس التمرکز والتشتت ذات العلاقة بالإنتاج الزراعي. 3- سيكتسب الطالب المهارات لمعرفة منحني التوزيع الطبيعي والمنحنى القياسي
Indicative Contents المحتويات الإرشادية	تعريف الطلبة بالدالة. تعريف الطلبة بطرق إيجاد مجال الدوال. تعريف الطلبة بطرق إيجاد مدى الدوال. تعريف الطلبة بطرق إيجاد الغاية للدوال. شرح خواص الغاية وطرق إيجادها عند اللانهاية. تعريف الطلبة بطريقة رسم الدوال. تعريف الطلبة بطرق اشتقاق الدوال باستخدام التعريف وطرق الاشتقاق. شرح للطلبة طريقة إيجاد معادلة المماس للدوال شرح تعريف التكامل الغير محدد وخصائصه شرح طريقة حساب التكامل المحدد وخصائصه شرح وتعريف الطلبة بمشتقة وتكامل الدوال المتثلثية وخواصها

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	<ul style="list-style-type: none"> - تزويد الطلبة بالاساسيات الاضافية المتعلقة بمخرجات التفكير والتحليل - تكوين مجموعة نقاشية لمناقشة مختلف المواضيع الزراعية - طرح الاسئلة التفكيرية خلال المحاضرات تتضمن مثل(ماذا و كيف ومتى ولماذا) - اعداد الطلبة واجبات بيتية تتطلب تفسيرات ذاتية بطرق سببية

Student Workload (SWL) الحمل الدراسي للطلاب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطلاب خلال الفصل	48	Structured SWL (h/w) الحمل الدراسي المنتظم للطلاب أسبوعيا	3

Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	77	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	5
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	3	12% (10)	3, 5 and 10	LO #1, #2 , # 3 and #4, #5
	Assignments	3	12% (15)	3, 6 and 12	LO #2, #3 and #4, #5
	Projects / Lab.				
	Report	1	12% (10)	13	LO #2, #3 and #4
Summative assessment	Midterm Exam	2hr	14% (15)	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	المصفوفات المتعامدة
Week 2	المصفوفات المربعة
Week 3	المصفوفة المرافقة
Week 4	المحددات

Week 5	قاعدة كرامر
Week 6	امتحان فصلي
Week 7	المشتقات
Week 8	الدوال المثلثية
Week 9	الدوال الاسية
Week 10	الدوال اللوغاريتمية
Week 11	التكامل
Week 12	تكامل الدوال المثلثية
Week 13	تكامل الدوال الاسية
Week 14	تكامل الدوال اللوغاريتمية
Week 15	امتحان
Week 16	

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

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

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Ayres, Frank and Mendelson, Elliott., (2012), Schaum's Outline of Calculus, 6th Edition. US: McGraw- Hill Thomas, Jr., Weir, Hass, (2014), Thoma's Calculus, 13th Edition. Pearson	Yes
Recommended Texts	كتاب الرياضيات للاقتصاد والعلوم الادارية والمالية 2015 الدكتور محمود مهدي البياتي والدكتور دلال القاضي	Yes
Websites	Mathway Algebra Problem Solver	

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	Zoology		Module Delivery
Module Type	Basic		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	ZOOL126		
ECTS Credits	7		
SWL (hr/sem)	175		
Module Level	1	Semester of Delivery	
Administering Department	Animal production	College	Agriculture
Module Leader	Hameed Majeed Radhi	e-mail	hameed.majeed@uomisan.edu.iq
Module Leader's Acad. Title	Professor	Module Leader's Qualification	
Module Tutor	Name (if available)	e-mail	E-mail
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	1/10/2024	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
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أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية

<p>Module Objectives</p> <p>أهداف المادة الدراسية</p>	<p>Zoology involves the study of the structure and function of animals, biodiversity and ecology of ecosystems, and conservation biology. This knowledge is essential in order to understand, protect and manage species, habitats and ecosystems. The course aims to provide students with a wide skillset, and covers both local and global terrestrial and aquatic zoological issues whilst encouraging both a theoretical and applied approach to the subject.</p> <p>This course offers great opportunities for students interested in environment and species management or in becoming part of the global scientific community.</p>
<p>Module Learning Outcomes</p> <p>مخرجات التعلم للمادة الدراسية</p>	<p>Important: Write at least 6 Learning Outcomes, better to be equal to the number of study weeks.</p> <ol style="list-style-type: none"> 1. Learn the importance of studying zoology. 2. Learn about the characteristics of the animal kingdom. 3. Learn about the characteristics and components of animal cells. 4. Description of cell division and its types. 5. Learn the rules of scientific nomenclature. 6. Discuss the physical and chemical nature of protoplasm. 7. Learn about the characteristics of animal phylums.
<p>Indicative Contents</p> <p>المحتويات الإرشادية</p>	<p>This course is an introduction to the scientific study of animals. Students will explore the wonders of the animal kingdom through investigations of the physiology, reproduction, development, form and function of a wide diversity of both invertebrates and vertebrates. Students will learn through lectures and videos, practicals and independent study.</p> <p>This major will provide students with a sound knowledge and understanding of animal structure and function and the evolutionary processes that have engendered animal diversity. Zoologists also study physiology, reproduction, behaviour, community ecology and molecular genetics. Zoology underpins society's interest in conservation and marine science including major contributions to current research in ecosystem management.</p>

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	<ol style="list-style-type: none"> 1- Enabling students to think and analyze topics related to the intellectual framework of the subject administration of zoology. 2- Enabling students to think and analyze topics related to measuring productivity. 3- Enabling students to think and analyze how to provide environmental conditions that affect animal phylums and their relationship to their production and health status
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Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	78	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	97	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	6
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	175		

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	Midterm Exam	2hr	10% (10)	7	LO #1 - #7

assessment	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	مقدمه عامه حول علم الحيوان و علاقته بالعلوم الاخرى
Week 2	طريقة البحث العلمي
Week 3	اصل الحياة والنظريات الخاصه بها
Week 4	البروتوبلازم
Week 5	السايتوبلازم
Week 6	انقسام الخلايا واسبابه
Week 7	بيوض الاحياء وتصنيفها
Week 8	الانزيمات ودورها في حياة الكائنات
Week 9	التنسيق الكيميائي في الاحياء وكيف يتم الجهاز العصبي
Week 10	التطور العضوي
Week 11	علم البيئه
Week 12	
Week 13	
Week 14	
Week 15	
Week 16	

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	المجهر البسيط الضوئي
Week 2	المجهر الالكتروني
Week 3	اعداد الشريحه للفحص
Week 4	الخليه النباتيه والحيوانيه
Week 5	مظاهر الحياه
Week 6	الدم
Week 7	الضفده
Week 8	المملكه الحيوانيه
Week 9	اعداد نماذج لكل شعبه من المملكه الحيوانيه
Week 10	المبادئ الاساسيه لانشاء احواض اسماك الزينه

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Zahir,E. and Najam, S.(1989). Zoology. Book.	Yes
Recommended Texts	Various classification research and university theses, zoology.	yes
Websites	1- https://www.britannica.com/science/zoology 2- https://www.sciencedirect.com/journal/zoology	

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	Arabic language	Module Delivery
Module Type	Basic	<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	UM 101	
ECTS Credits	2	
SWL (hr/sem)	50	

Module Level	1	Semester of Delivery	Two
Administering Department	Animal production	College	Agriculture
Module Leader	Name	e-mail	E-mail
Module Leader's Acad. Title		Module Leader's Qualification	M.Sc.
Module Tutor		e-mail	
Peer Reviewer Name	Name	e-mail	E-mail
Scientific Committee Approval Date	01/10/2024	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	أهمية اللغة العربية للاختصاصات العلمية وميزتها بين اللغات الحية تجنب الأخطاء الشائعة وسلامة النطق
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	أن يتعرف الطالب على قواعد اللغة العربية أن يعرف الطالب كيفية بناء الجمل واستخراجها للعنوان المطلوب.
Indicative Contents المحتويات الإرشادية	تدرس اللغة العربية على عدة مستويات: المستوى النحوي: وهو المستوى الذي من خلاله يمكن معرفة المعنى التركيبي للنص.

	<p>المستوى الصرفي وهو المستوى الذي يمكن من خلاله معرفة المعنى المتفرع على المعنى المعجمي، المستوى الدلالي: وهو المستوى الذي من خلاله يمكن معرفة دلالة الألفاظ (الجزر). المستوى الصوتي: وهو المستوى الذي يدرس الحروف والحركات والمقاطع الصوتية سواء كانت لفظاً أو جزءاً من لفظ.</p>
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Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	<p>The main strategy that will be adopted in delivering this module are:</p> <ol style="list-style-type: none"> 1. Power point presentation (Data show). 2. Explanation on the white board using different color markers. 3. Discussions with the student during teaching. 4. Interaction with students through daily problems practice through lecture. 5. Solve different problems with more exercises. 6. Submit assignment that develop student learning.
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Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعاً

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	32	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعياً	2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	18	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعياً	1
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	50		

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	القران الكريم/الإعجاز البلاغي
Week 2	سورة الكهف أسباب النزول
Week 3	تفسير عشرون آية مع الحفظ
Week 4	قواعد اللغة العربية/قواعد في الإعراب
Week 5	المبتدأ والخبر
Week 6	النواسخ
Week 7	الأفعال الناقصة
Week 8	المفاعيل
Week 9	الأعداد
Week 10	الإملاء/قواعد كتابة الهمزة
Week 11	قواعد كتابة التاء

Week 12	الأدب العربي/مقدمة في عصور الأدب العربي ومميزات كل عصر وأصوله الفنية
Week 13	دراسة ونقد لنص شعري قديم/قصيدة الحمامة النائحة لأبي فراس الحمداني
Week 14	الأخطاء الشائعة في الكتابة
Week 15	

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	كتاب منهجي	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	Computer applications/1		Module Delivery	
Module Type	B		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input checked="" type="checkbox"/> Practical <input type="checkbox"/> Seminar	
Module Code	UM-103			
ECTS Credits	3			
SWL (hr/sem)	75			
Module Level	1	Semester of Delivery	2	
Administering Department		College	College of Agriculture	
Module Leader	Abbas luaibi obaid	e-mail	abbas.alrajhe@uomisan.edu.iq	
Module Leader's Acad. Title	Asst.Lecturer	Module Leader's Qualification	Msc.Engineering	
Module Tutor	Abbas luaibi obaid	e-mail	abbas.alrajhe@uomisan.edu.iq	
Peer Reviewer Name	Department of Animal Production	e-mail		
Scientific Committee Approval Date	1/10/2024	Version Number	1.0	

Relation with other Modules

العلاقة مع المواد الدراسية الأخرى

Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Objectives	Introducing the student to the basics of computers and types of computers Its classification, operating systems and objectives. As for the goals of the
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أهداف المادة الدراسية	practical side It is to provide the student with skills in using operating and application programs and how to maintain computer security.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	Students will learn: 1. The basics, basic ideas and concepts necessary to understand the structure of the computer. 2. Explain the basic components of the computer and learn about them in detail. 3. Explain computer security and explain malware and how to prevent it. 4. Understand how to deal with programs safely. 5. Explain operating systems and learn about them. 6. Explain how to deal with the Windows system and how to install it on computers. 7. Learn about keyboard shortcuts and how to use them.
Indicative Contents المحتويات الإرشادية	Here's a detailed outline of indicative contents for an OOP course. The indicative contents typically cover the following key topics: 1. Computer Basics 1. The development of computer generations 2. Electronic computer 3. Data and information 4. Computer features 5. Areas of computer use 6. Computer components 7. Types of computers 8. Classification of computers 2. Computer components 1. Computer components 2. The physical parts of the computer 3. Input devices 4. Output devices 5. Computer box1.Software entity 6. Number systems 7. Your personal computer

8. Computer platform
9. Factors that must Take this into consideration when purchasing a computer

3.(Computer security and licensing programs)

1. Ethics of the electronic world
2. Forms of abuses in the world Electronic
3. Computer security
4. Computer privacy
5. Computer software licenses
6. Types of licenses
7. Intellectual property
8. Electronic hacking
9. Types of electronic hacking
10. Sources of hacking Electronic
11. The most security risks widespread
12. Malicious software
13. Computer viruses
14. Damages resulting from Viruses
15. Components of viruses
16. Types of viruses
17. Necessary steps for protection From viruses
18. Computer damage On human health

4.Operating Systems

1. Definition of the operating system
2. Operating system functions
3. Objectives of the operating system
4. Operating system classification
5. Examples of some operating systems
- 6.Windows 7 operating system
- 7.Windows 7 installation requirements

	8.Windows 7 features
	9. Surface components

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	<p>1- Explanation, clarification, and honing general and qualifying skills</p> <p>2- Urging the student to write simple research using the lecture method to create a state of balance between methodological information and source information.</p> <p>3- Urging the student to work on practical projects on the calculator and hold discussion circles among the students on the methodology of the subject and distribute the students into groups.</p> <p>4-Practical lessons in the laboratory</p> <p>5- The method of self-learning and writing scientific reports, and urging the student to evaluate the answers of his fellow students to develop self-development.</p>

Student Workload (SWL) الحمل الدراسي للطلاب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطلاب خلال الفصل	48	Structured SWL (h/w) الحمل الدراسي المنتظم للطلاب أسبوعيا	3
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطلاب خلال الفصل	27	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطلاب أسبوعيا	2
Total SWL (h/sem) الحمل الدراسي الكلي للطلاب خلال الفصل	75		

Module Evaluation تقييم المادة الدراسية	
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		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	5 and 10	To be selected by the module leader
	Class group assignments	1	5% (5)	Continuous	
	Report	1	10% (10)	12	
Summative assessment	Midterm Exam	1hr	25% (25)	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	Chapter One: Computer Basics 1. The development of computer generations 2. Electronic computer 3. Data and information
Week 2	4. Computer features 5. Areas of computer use
Week 3	1. Computer components 2. Types of computers 3. Classification of computers
Week 4	Chapter Two: Computer components 1. Computer components 2. The physical parts of the computer 3. Input devices
Week 5	4. Output devices

	5. Computer box
Week 6	<ol style="list-style-type: none"> 1. Software entity 2. Number systems 3. Your personal computer 4. Computer platform 5. Factors that must <p>Take this into consideration when purchasing a computer</p>
Week 7	Mid-term Exam
Week 8	<p>(Computer security and licensing programs)</p> <ol style="list-style-type: none"> 1. Ethics of the electronic world 2. Forms of abuses in the world Electronic 3. Computer security 4. Computer privacy
Week 9	<ol style="list-style-type: none"> 5. Computer software licenses 6. Types of licenses 7. Intellectual property
Week 10	<ol style="list-style-type: none"> 1. Electronic hacking 2. Types of electronic hacking 3. Sources of hacking <p>Electronic</p>
Week 11	<ol style="list-style-type: none"> 4. The most security risks <p>widespread</p> <ol style="list-style-type: none"> 5. Malicious software 6. Computer viruses
Week 12	<ol style="list-style-type: none"> 7. Damages resulting from <p>Viruses</p> <ol style="list-style-type: none"> 8. Components of viruses 9. Types of viruses
Week 13	<ol style="list-style-type: none"> 10. Necessary steps for protection <p>From viruses</p> <ol style="list-style-type: none"> 11. Computer damage On human health

Week 14	<p>the fourth chapter</p> <p>Operating Systems</p> <ol style="list-style-type: none"> 1. Definition of the operating system 2. Operating system functions 3. Objectives of the operating system 4. Operating system classification 5. Examples of some operating systems
Week 15	<ol style="list-style-type: none"> 1.Windows 7 operating system 2.Windows 7 installation requirements 3.Windows 7 features 4. Surface components
Week 16	Final examination

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Showing the components of the computer to the students and what the parts of the computer consist of in detail
Week 2	Introducing students to the input and output parts and explaining the operation of each device.
Week 3	Opening the computer case, explaining the internal parts and explaining the function of each part
Week 4	Show programming examples inside the lab using one of the programming languages to familiarize students
Week 5	Introducing students to personal computers, explaining their components and parts, how to choose them, and
Week 6	what are the most important factors to consider when purchasing a computer.
Week 7	Mid-term Exam
Week 8	Practical implementation of computer security, privacy protection and computer software licenses and identifying types of licenses, intellectual property statement, examples of hacking and types of hacking
Week 9	Practical implementation of Introducing students to the sources of hacking, its risks, the most important malware, and examples of it in the form of a presentation. Introducing students practically to computer viruses and the damages resulting from them, what are the types of

	viruses, and the most important steps necessary to protect against hacking
Week 10	Practical implementation of The harms of computers on human health, introducing students to using computers for prevention and , Introducing students to the operating system, what are the requirements for installing the operating system, and how to install the operating system.
Week 11	Practical implementation of Explain the components of the desktop, the Start menu, and the taskbar.
Week 12	Practical implementation of Folders and files. Explaining the types of files. Introducing the student to the main icons.
Week 13, 14	Practical implementation of Perform operations on windows, how to change the desktop,
Week 15	Practical implementation of To explain the control panel in detail, and to show the control button, and how to install programs
Week 16	Final examination

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	<p>Written by:</p> <p>1- Professor Dr. Ghassan Hamid Abdel Majeed</p> <p>2-Professor Dr. Ziad Muhammad Abboud</p> <p>3-Professor Dr. Muhammad Nasser Al-Tarfi</p> <p>4-Professor Dr. Safaa Abbas Al-Mamouri</p> <p>2- International Information Network, the Internet</p> <p>1- Internet Ethics - A. M. Alawi Hind - Al-Shabsi Arab University Center</p> <p>2- Ethics of dealing with technical and communication resources - Dr. Hussein bin Saeed bin Saif</p> <p>3- Ethics of the virtual world - Dr. Louay Al-Zoubi 2013</p>	yes
Websites	<p>Library Genesis</p> <p>websites:</p> <p>-History of the development of computer networks, objective website: http://mawdoo3.com</p>	

	<p>http://youstaff.blogspot.com: Information and Internet security</p> <p>http://geeklesstech.com : Internet Law Laws for using the Internet-</p> <p>-Real-time communication protocols in the Internet (RTP SIP), World of Technology website.</p> <p>ARPANET logical map, http://russbellew.com/Documents/Arpanet_sep_1974.</p>
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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	Domestic Bird	Module Delivery

Module Type	Core			<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	DOBR112			
ECTS Credits	6			
SWL (hr/sem)	150			
Module Level	1	Semester of Delivery		Two
Administering Department	Animal Production	College	Agriculture	
Module Leader	Noor falah mahde		e-mail	Noor.falah@uomisan.edu.iq
Module Leader's Acad. Title		Module Leader's Qualification		
Module Tutor		e-mail		
Peer Reviewer Name	Name	e-mail	E-mail	
Scientific Committee Approval Date	1/10/2024	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	<p>Enables the student to gain knowledge of:</p> <ol style="list-style-type: none"> 1. The importance of the principles of poultry science, which deals in detail with the importance and types of poultry birds, their classification, and their location in the animal kingdom. 2. The nutritional and economic importance of poultry products and their role in preparing animal protein of high biological value. 3. Identify the diets and feed materials for poultry birds.
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	4. Knowing the most important diseases that affect them and ways to prevent them.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	<ol style="list-style-type: none"> 1. Introducing students to modern techniques used in poultry production. 2. Introducing students to the types of poultry, their classification, and how to domesticate them?. 3. Explaining and clarifying the sciences related to poultry science. 4. Defining the economic importance of poultry production projects. 5. Defining the nutritional importance of poultry and its role in providing animal protein. 6. Introducing students to the structure and functions of the various body systems, with a drawing of these systems and an explanation of their parts. 7. Introducing students to genetic improvement of birds and how to increase the quantitative traits responsible for high production of meat and eggs. 8. Introducing students to the importance of the poultry hatching process, the types of hatcheries, and how to complete the hatching process and manage the hatcheries. 9. Introducing students to the factors affecting the hatching process. 10. Explaining and clarifying the design of poultry housing, and how to control environmental conditions inside the housing. 11. Explanation and clarification of the types of feed ingredients used in feeding poultry birds and their nutritional needs. 12. A detailed explanation of broiler slaughterhouses, how they work, the steps followed in preparing the carcasses, and how to preserve them. 13. Introducing students to modern slaughterhouses, slaughtering steps, automatic cutting of carcasses, and preparing the various cuts. 14. A detailed explanation of the most important infectious diseases to which birds may be exposed, and the health programs used to prevent them.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. <ol style="list-style-type: none"> 1- Emphasizing the importance of poultry production in the agricultural field and its economic impact on the country. 2- Teaching students about the crucial role of effective management, whether it be the human factor or the breeder themselves, in different types of poultry farms. 3. Promoting the practice of locally raising poultry. 4. Recognizing various poultry types and the key projects associated with their breeding. 5. Identifying administrative challenges in poultry farms and working towards their resolution.

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	<p>A) This course aims to develop students' critical thinking skills and analytical abilities about the intellectual framework of the subject of Principles of Domestic Birds.</p> <p>B) This course aims to enable students to examine and analyse various topics related to the breeding of poultry birds, including the different types of birds and the most important projects related to their breeding.</p> <p>C) This course aims to help students identify administrative problems that may be encountered in poultry fields and develop strategies to address them.</p> <p>D) This course aims to encourage students to think critically and analyse the successful management role of various stakeholders in poultry fields, such as human workers and educators.</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	78	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	72	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	5
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	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)		
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Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	تركيب اعضاء الدجاج ووظائفها الحيويه
Week 2	تركيب اعضاء الدجاج ووظائفها الحيويه
Week 3	الوراثة في الطيور
Week 4	الوراثة في الطيور
Week 5	التفريخ وادارة المفقسات
Week 6	الامتحان
Week 7	مبادئ تغذية الدواجن
Week 8	مبادئ تغذية الدواجن
Week 9	امراض وطفيليات الدواجن
Week 10	امتحان
Week 11	امراض النقص الغذائي
Week 12	الامراض الطفيلية
Week 13	الامن الحيوي – لمنع الاصابه بالامراض
Week 14	مراجعته عامه لجميع فصول الدرس
Week 15	
Week 16	

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر (الحقل Filed)

	Material Covered
Week 1	زياره ميدانيه لحقل الدواجن
Week 2	واقع انتاج لحوم الدواجن
Week 3	التصنيف الجغرافي
Week 4	مصطلح الدواجن
Week 5	انواع التفقيس
Week 6	حضانة الافراخ
Week 7	امتحان
Week 8	تشريح الدجاجة
Week 9	شروط مساكن الدواجن
Week 10	تغذية الدواجن
Week 11	امثله لحساب علانق فروج اللحم والبياض
Week 12	امراض الدواجن
Week 13	امتحان
Week 14	المجزره
Week 15	عرض افلام حول تربية الامهات والدجاج البياض

Learning and Teaching Resources		
مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	Principles of Poultry Production written by Dr. Ali Mahmoud Amer Al-Kassar (2010).	No
Recommended Texts	1- Al-Zubaidi, Suhaib Saeed Alwan (1986). Poultry management. Basrah University Press. 2- Poultry production translated by Dr. Musleh Hussein. 3- Al-Fayadh, H. A. A., Najji, S. A. H., & Al-Hajo, N. N.(1989). Poultry Products Technology. First edition,. Higher Education Press, University of Baghdad.	Yes

Websites	https://nicehatchincubators.com/the-principles-of-poultry-husbandry/ https://www.britannica.com/topic/poultry-farming	

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	Plant Protection	Module Delivery
Module Type	Basic	<input checked="" type="checkbox"/> Theory

Module Code	PLPR122		<input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar	
ECTS Credits	6			
SWL (hr/sem)	150			
Module Level	1	Semester of Delivery	Two	
Administering Department	Animal Production	College	Agriculture	
Module Leader	Qusai Hattab Madhi		e-mail	qusay.hattab@uomisan.edu.iq
Module Leader's Acad. Title	Assistant professor	Module Leader's Qualification	Ph.D.	
Module Tutor		e-mail		
Peer Reviewer Name	Name	e-mail	E-mail	
Scientific Committee Approval Date	1/10/2024	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	1- Learn about the most important pests and diseases spread in Iraq and the world and the types of their causes. - 2- It classifies the types of pests and diseases according to their causes, their cycle of life, or the nature of their reproduction. - 3- The student separates the types of pests and diseases and the most important methods used to reduce their impact on crop productivity - 4- Knows the scientific methods used to reduce the damage of pests and diseases by first adopting preventive methods. -
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	5- The student evaluates the cost of chemical control, the type of pesticides used, the method of control, additions, and devices.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	The student should know the basics of plant protection, how to get rid of insect pests, diseases, and fungi that infect plants, and the best ways to protect and protect them.
Indicative Contents المحتويات الإرشادية	<ol style="list-style-type: none"> 1- Identify the types of insects 2- Identify the conditions and mutations that help insects in the environment 3- Identify the positive and negative circumstances affecting the life of insects

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	Use presentations/images/brochures/books/surveys to research the shop
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Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	78	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	72	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	5
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	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	مقدمة عن علم الحشرات
Week 2	اساليب تغذية الحشرات والعوامل التي ساعدت على البقاء
Week 3	أ- طرق تكاثر الحشرات
Week 4	ب- العوامل البيئية المؤثرة في حياة ونشاط الحشرات
Week 5	طرق مقاومة الحشرات
Week 6	الحكم الأقتصادي والعوامل المهمة في العراق
Week 7	طبيعة حياة واضرار القوارض الزراعية
Week 8	الأهمية الاقتصادية للآفات
Week 9	تعريف لمصطلحات الأمراض
Week 10	مسببات امراض النباتات الطفيلية
Week 11	مسببات الأمراض غير الطفيلية

Week 12	مراحل تطور المرض وطرق انتشاره
Week 13	طرق مقاومة امراض النبات
Week 14	
Week 15	

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	الصفات العامة لشعبة مفصليّة الأرجل وصنف الحشرات
Week 2	تركيب جسم الحشرة / ملحقات الرأس / انواع الفم / انواع اللوامس
Week 3	ملحقات الصدر / انواع الأرجل / انواع الأجنحة / ملحقات البطن
Week 4	التشكل في الحشرات وتقسيم الحشرات الى رتب
Week 5	حشرات الحنطة والشعير + الذرة الصفراء + القطن
Week 6	حشرات النخيل / الفاكهة والقرعيات
Week 7	التعرف على اهم الاعراض المرضية
Week 8	دراسة اعراض امراض المحاصيل الحقلية واساليب مقاومتها
Week 9	دراسة اعراض امراض المحاصيل البستانية واساليب مقاومتها

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	1- Principles of plant protection (insects part) 2- Insect pests	Yes
Recommended Texts	Principles of plant protection (plant diseases part)	No
Websites	https://www.agro-lib.site/2022/04/blog-post_497.html	

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	Organic Chemistry	Module Delivery

Module Type	Basic		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar	
Module Code	ORCH125			
ECTS Credits	6			
SWL (hr/sem)	150			
Module Level	1	Semester of Delivery	Two	
Administering Department	Animal production	College	Agriculture college	
Module Leader	Ayat Jawdat Khadem		e-mail	ayat.jawdat@uobasrah.edu.iq
Module Leader's Acad. Title		Module Leader's Qualification	M.Sc.	
Module Tutor		e-mail		
Peer Reviewer Name	Name	e-mail	E-mail	
Scientific Committee Approval Date	01/10/2024	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	The curriculum included a general study of the organic chemistry of some of its formulations, including aliphatic compounds, their preparation methods, their most important reactions and their naming, as well as aromatic compounds and their derivatives and their nomenclature, halogen organic compounds, oxygen organic compounds, nitrogen compounds, and stereochemistry.
Module Learning	The organic chemistry curriculum is one of a series of important

Outcomes مخرجات التعلم للمادة الدراسية	curricula in the Department of Food Sciences as a guide for students about the most important principles of organic chemistry, explaining the properties of chemicals and how to prepare them and reveal their presence to help know the dangers of these materials to humans and their environment and how to avoid these risks and to know the areas in which they can be used this Materials
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. Keeping abreast of the amazing developments taking place in various fields and sciences, especially organic chemistry, by clarifying the theoretical foundations and scientific and applied courses of the organic chemistry course through a detailed study of the composition, naming and preparation of chemicals and the chemical reactions explained by their mechanics.

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	The modern teaching strategy includes achieving learning objectives in general and teaching chemical concepts in particular, and the difficulties that the student faces in understanding and acquiring the concepts of organic chemistry, and treating the difficulties by defining the concepts of organic chemistry and helping students acquire the correct chemical concepts.
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Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	78	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem)	72	Unstructured SWL (h/w)	5

الحمل الدراسي غير المنتظم للطالب خلال الفصل		الحمل الدراسي غير المنتظم للطالب أسبوعيا	
Total SWL (h/sem)	150		
الحمل الدراسي الكلي للطالب خلال الفصل			

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)	
المناهج الاسبوعي النظري	
	Material Covered
Week 1	– أهم التفاعلات في الكيمياء C-C التعريف بالكيمياء العضوية-أهم الاواصر-التهجين-احتمالات انشطار الاصرة التساهمية العضوية
Week 2	³ –الحركة الدورانية- التحضير- التفاعلاتSp الالكانات- تعريفها- التسمية- أمثلة- التهجين
Week 3	² –تكون الاصرة المزدوجة- التحضير- التفاعلاتSp الالكينات- تعريفها- التسمية- أمثلة- التهجين
Week 4	المركبات الهيدروكربونية التي تحتوي على أكثر من اصرة مزدوجة- أمثلة- الداينات-انواعها- تفاعلاتها
Week 5	– تكون الاصرة الثلاثية- التحضير- التفاعلاتSp الالكينات- تعريفها- التسمية- أمثلة- التهجين

Week 6	المركبات الحلقية الأليفاتية- تعريفها- اهم الحلقات- تحضيرها- أهم تفاعلاتها
Week 7	الامتحان النظري الاول
Week 8	المركبات الأورماتية- تعريفها- التسمية- حساب طاقة التارجح الأليكتروني- تكون الحلقة الأورماتية- النشاط والتوجيه- التحضير- التفاعلات
Week 9	$1E-2$, $2E$, $1SN$, SN الهاليدات الأليفاتية والأورماتية- تعريفها- التسمية- أمثلة- تحضيرها- تفاعلاتها
Week 10	الاستبدال النيوكلوفيلي في هاليدات الأريل
Week 11	الكحولات والفينولات والإثيرات- تعريفها- التسمية- تحضيرها- تفاعلاتها
Week 12	الألديهيدات والكيونات- تعريفها- أمثلة- التسمية- مجموعة الكربونيل- التحضير- التفاعلات- مشتقات النتروجين للألديهيد والكيون
Week 13	الامتحان النظري الثاني
Week 14	الأمينات- تعريفها- أنواعها- التسمية- الأمثلة – التحضير- التفاعلات
Week 15	الحوامض الكربوكسيلية- تعريفها- أمثلة- التسمية- مجموعة الكربوكسيل- التحضير- التفاعلات
Week 16	عادة لا نتمكن من التعرف لمشتقات الحوامض الكربوكسيلية (الاسترات, الأنهيدريدات, الأميدات, هاليدات الحامض) لضيق الوقت عن السابق

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الأسبوعي للمختبر

	Material Covered
Week 1	Lab 1: Physical properties of organic materials
Week 2	Lab 2: Boiling Point Measurement
Week 3	Lab 3: Purification of organic matter and recrystallization
Week 4	Lab 4: solubility of organic compounds
Week 5	Lab 5: Effective totals
Week 6	Lab 6: Detecting the double bond
Week 7	Lab 7: Stereoisomers
Week 8	Lab 8: Detection of alcohols and phenols
Week 9	Lab 9: NS

Week10	Lab10: Detecting aldehydes and ketones and distinguishing between them
Week11	Lab11: Aspirin preparation
Week12	Lab12: Methane
Week13	Lab13: Physical properties of organic materials

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Osman, Ibrahim Mohamed (2005). Organic Chemistry: Concepts and Applications. Dar Al-Amal for Publishing and Distribution	NO
Recommended Texts	Mazahreh, Ayman Mokhtar (2017). Basics of organic chemistry and its applications. Curriculum House for Publishing and Distribution	No
Websites	NO	

[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

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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	Field Crops		Module Delivery
Module Type	Basic		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input type="checkbox"/> Lab <input type="checkbox"/> Tutorial <input checked="" type="checkbox"/> Practical <input type="checkbox"/> Seminar
Module Code	FICR115		
ECTS Credits	7		
SWL (hr/sem)	175		
Module Level		Semester of Delivery	
Administering Department	Animal production	College	Agriculture
Module Leader	Ali Adnan Hassoun	e-mail	ali.adnan@uomisan.edu.iq
Module Leader's Acad. Title		Module Leader's Qualification	
Module Tutor		e-mail	
Peer Reviewer Name		e-mail	
Scientific Committee Approval Date	9-2-2024	Version Number	1.0

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	It is related to the subject of plant classification, field crop management, grain and legume crops, and other study subjects such as plant physiology and others.	Semester	
Co-requisites module	It is related to industrial crops, oil and sugar crops, fiber crops, as well as environmental science and soil basics.	Semester	

Module Aims, Learning Outcomes and Indicative Contents	
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives	1. Knowing the basics of field crop management

أهداف المادة الدراسية	2. Definition of field crop science, its economic importance, field crops, the most important divisions of field crops, and the effect of environmental conditions on crop growth. Important agricultural processes in crop production are also defined.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1- Identify the concept of field crops and how to manage the field. Understand and comprehend the theoretical material and apply it in the practical lesson to prepare students who are able to obtain new job opportunities. 2- Prepare students who have the ability to continue learning and developing inside and outside Iraq. 3- Prepare scientific researchers in the field of field crops who have the ability to provide advice, guidance and modern information in the field of the agricultural sector.
Indicative Contents المحتويات الإرشادية	

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	The course includes (2) theoretical hours and (3) practical hours - the number of weekly hours is approved and distributed over 15 weeks. The strategy includes - The ability to work in the agricultural sector in the field crops specialization. - Encouraging students to excel academically to obtain new job opportunities. - Graduating students who have the ability to continue learning and developing inside and outside Iraq. - Preparing scientific researchers in the field of field crops. - Providing advice and up-to-date information to relevant institutions and ministries
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Student Workload (SWL)

الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	78	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem)	97	Unstructured SWL (h/w)	7

الحمل الدراسي غير المنتظم للطالب خلال الفصل		الحمل الدراسي غير المنتظم للطالب أسبوعيا	
Total SWL (h/sem)	175		
الحمل الدراسي الكلي للطالب خلال الفصل			

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	المحاصيل الحقلية – تعريفها- منشأها – تطویرها
Week 2	تقسيم المحاصيل الحقلية حسب الاستعمال الاقتصادي والموسم الزراعي ، مدة مكوث المحصول في الارض – الاستعمالات الاخرى
Week 3	الوصف النباتي لاهم عوائل المحاصيل الحقلية كالنجليه والبقوليه وغيرها
Week 4	العوامل البيئية وعلاقتها بنمو المحاصيل الحقلية
Week 5	العوامل الحيويه-الضوء-الحراره-الرطوبه

Week 6	عوامل التربة من حيث تركيبها وقوامها وخصوبتها وتفاعل محلولها-انواع المحاصيل حسب تحملها للملوحه
Week 7	علاقة الماء بنمو المحاصيل الحقلية
Week 8	-العوامل الحيوية بالكائنات الدقيقة
Week 9	عمليات اعداد الارض للزراعه واجراء امتحان فصلي
Week 10	البذور والحبوب واختيار الانبات والنقاوه والشروط الواجب توفرها في بذور المحاصيل الحقلية المعده للزراعه مع فكره عن اهميه تدريج الحبوب وتجفيف الحاصل وخرنه وتسويقه
Week 11	الادغال - تعريفها - عوامل انتشارها - الخسائر التي تسببها - طرق مكافحتها مع ذكر أهم الادغال المنتشره في المنطقه
Week 12	الدورات الزراعيه - النقاط الواجب مراعاتها في تقييم الدورات الزراعيه - أنواع الدورات وفوائدها مع أمثله توضيحيه عن الدورات الزراعيه
Week 13	مقدمه موجزه عن طرق تربية المحاصيل الحقلية
Week 14	مراحل انتاج واكثر البذور المحسنه
Week 15	فكره موجزه عن أهم المحاصيل الحوليه في العراق على شكل جداول مركزه

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	مفهوم علم المحاصيل الحقلية - أقسام المحاصيل الحقلية - التسمية العلمية
Week 2	عمليات خدمة التربة - 1 - الحرث - فوائد الحرث - الآلات المستخدمة في عملية الحرث
Week 3	عمليات خدمة التربة - 2- التنعيم - 3- التسوية - 4- التسوية بالليزر- مزايا تعديل الأرض
Week 4	العمليات - طرق الزراعة - أ - طريقة الزراعة حسب طريقة وضع البذور في التربة (من حيث الأداء) ب - طريقة الزراعة حسب نسبة الرطوبة في التربة عند الزراعة ج - طريقة الزراعة حسب نظام الري. مميزات وعيوب كل طريقة
Week 5	عمليات خدمة المحاصيل - العزق - 3- التنعيم - التنعيم - عمق الزراعة - مسافات الزراعة
Week 6	إنبات بذور المحاصيل الحقلية - العوامل المؤثرة على الإنبات - أنواع الإنبات حساب نسبة الإنبات
Week 7	إجراء تجربة معملية - المتطلبات وكيفية إجراء اختبارات الإنبات - كتابة تقرير

Learning and Teaching Resources		
مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	Mohammad Amin Omid Nouri (1986). Principles of Field Crops. Ministry of Higher Education and Scientific Research. University of Basra. College of Agriculture.	Yes
Recommended Texts	Al-Ansari, Majeed Mohsen and others (1980). Principles of Field Crops. Ministry of Higher Education and Scientific Research. Al-Ansari, Majeed Mohsen (1982). Field Crop Production. Ministry of Higher Education and Scientific Research. College of Agriculture, University of Baghdad	yes
Websites		

Grading Scheme				
مخطط الدرجات				
Group	Grade	التقدير	Marks %	Definition
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