Name of the University

جامعة البصرةBasrah university

First Cycle – Bachelor's degree (B.Sc.) – horticulture and landscape

بكالوريوس علوم زراعية – البستنة وهندسة الحدائق

Academic Program Description Form

University: .....Basrah University

College/Institute: ..... Agriculture college

Department: .....Horticulture and landscape

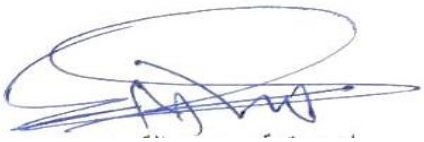
Program Name (academic or professional, Bachelor's, etc.): ... Bachelor's Horticulture and landscape

Degree Awarded: Bachelor in ... Horticulture and landscape

Study System: .....

Date of Program Description Preparation: ..9/1/2025.

Date of File Submission: .. 15/1/2025



Signature: ..... Signature: .

Head of Department's Name: ..... scientific associate name

..... mohammed abdulamer hassan sadiq jabar muhsin

Date: .... 15/1/2025. Date: .... 15/1/2025.

This file has been reviewed by the

Quality Assurance and Academic Performance Unit

Head of Quality Assurance and Academic Performance Unit: Riyadh adnan armila

Date: 15/1/2025

Dean's Approval: ..... sarmad ghazi mohammed.

Table of Contents | جدول المحتويات

1. Mission & Vision Statement

Vision Statement

The Department of Horticulture and Landscape Architecture is one of the departments of the College of Agriculture, established in 1971. It was founded to meet the needs of state institutions and other sectors for specialists in the fields of fruits, vegetables, ornamental plants, landscape architecture, and various horticultural fields. In addition, the department cooperates with researchers and specialists both domestically and internationally in agricultural and industrial research centers and institutions by adopting modern knowledge and utilizing and disseminating technology in advanced horticultural fields to serve the development of horticultural projects in the region and the community. We aspire for our department to occupy a distinguished position among its counterparts in Iraq and the world, given its rich heritage and significant scientific capabilities. We aim for it to be a resource for all students of academic and applied sciences in Iraq and the region. Moreover, we seek to prepare specialized and qualified horticultural cadres who are capable of keeping pace with the demands of development plans and the needs of the job market

Mission Statement

The Department of Horticulture and Landscape Architecture plays a significant role in serving as a model of excellence in providing high-quality education, supported both locally and internationally, and keeping pace with the times. This is achieved by providing an academic environment where students and faculty interact to create a suitable learning atmosphere. This is accomplished through the continuous updating of curricula to align with scientific advancements and market demands, the adoption of English as a medium of instruction in some courses at all levels, and a focus on both practical and theoretical teaching to equip students for the job market after graduation.

Additionally, the Department of Horticulture and Landscape Architecture provides opportunities for agricultural engineers to acquire the knowledge and skills needed to work in the Ministry of Agriculture, related departments, and other sectors. The department also aims to develop theoretical knowledge and practical skills to enable students to apply these skills in the workplace, as well as to raise awareness of the importance of achieving food security

2. Program Specification

Programme code:	BSc-Horticulture	**ECTS**	240
Duration:	4 levels, 8 Semesters	**Method of Attendance:**	Full Time

Department of Horticulture and Landscape Architecture, University of Basrah

The Department of Horticulture and Landscape Architecture is a constituent unit of the College of Agriculture at the University of Basrah, under the Ministry of Higher Education and Scientific Research. Its primary objective is to meet the growing demand of government institutions and private sectors for qualified specialists in various horticultural fields. Moreover, it actively contributes to advancing scientific progress through university teaching and research, collaborating with various Iraqi agricultural and industrial ministries and institutions.

Horticulture is an agricultural science that focuses on the cultivation, development, care, propagation, and breeding of horticultural crops by creating optimal growth conditions to achieve high-quality yields. Horticulture encompasses several major branches, including:

- **Pomology:** This branch studies the cultivation of fruit trees, propagation methods, and care practices such as irrigation, fertilization, pruning, pest control, harvesting, and post-harvest handling.
- **Vegetable Crops:** Vegetables play a significant role in human nutrition due to their high content of nutrients, vitamins, proteins, and starches. This branch studies various vegetable crops.
- **Flowers and Ornamental Plants:** This branch focuses on the study, classification, propagation, and cultivation of different ornamental plants in home and public gardens. It also covers color coordination and plant identification through botanical descriptions.
- **Medicinal and Aromatic Plants:** This branch identifies and classifies medicinal and aromatic plants based on botanical families. It studies the plant parts used for medicinal purposes, the diseases they treat, the active ingredients they contain, and necessary treatment precautions.
- **Landscape Architecture:** This branch involves the design of public and private gardens, the landscaping of medians, the planning and planting of open spaces, and the cultivation of green areas. It has expanded to include rooftop gardens, sports fields, and green spaces around cities, as well as plant fences around buildings and facilities.

Students at the department undergo a multi-level study program in horticultural sciences. In the first year, students learn the fundamentals of horticulture and related sciences. Subsequent levels delve into specialized topics. The curriculum is designed to equip graduates with practical skills through agricultural and horticultural projects. To align with regional agricultural requirements, students are encouraged to develop a research mindset

from the beginning through practical applications, which are integrated into lectures, practical sessions, research seminars, and tutorials. In the final year, all students are required to undertake an independent research project, providing them with hands-on experience in managing and executing an agricultural project.

In summary, the Department of Horticulture and Landscape Architecture at the University of Basrah plays a crucial role in preparing qualified horticulturists to meet the demands of the agricultural sector. The department's curriculum is designed to provide students with both theoretical knowledge and practical skills, ensuring that they are well-equipped to contribute to the development of sustainable agriculture.

3. Program Objectives

- Clear goals: There are specific, well-defined goals for the program.
- Consistency: These goals fit with the broader goals of the college.
- Regular checks: The goals are reviewed regularly to ensure they are still relevant.
- Measurable goals: There are specific ways to measure if the goals are being met.
- Input from everyone: Students, teachers, and the community help to set and review the goals.

4. Student Learning Outcomes

Horticulture is an agricultural science that focuses on the cultivation, development, care, propagation, and breeding of horticultural crops by creating optimal growth conditions to achieve high-quality yields. Horticulture encompasses several major branches, including:

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Outcome 1

Identification of Complex Relationships

Prepare graduates who have successfully acquired all the necessary skills to achieve the objectives of the program through the ability to apply knowledge in Agricultural Sciences (horticulture and garden engineering) and identify measurable cognitive skills.

Outcome 2

Oral and Written Communication

The ability to design and conduct experiments required by scientific research after graduation the ability to solve agricultural problems in the field of horticulture ,the broad education necessary to understand the impact of the agricultural renaissance on society and the surrounding environment..

Outcome 3

Laboratory and Field Studies

Graduates will be able to perform laboratory experiments and field studies, by using scientific equipment and computer technology while observing appropriate safety protocols.

Outcome 4

Scientific Knowledge

Graduates will be able to demonstrate a balanced concept of how scientific knowledge develops, including the historical development of foundational theories and laws and the nature of science.

Outcome 5

Data Analyses

Graduates will be able to demonstrate scientific quantitative skills, such as the ability to conduct simple data analyses.

Outcome 6

Critical Thinking

Graduates will be able to use critical-thinking and problem-solving skills to develop a research project and/or paper.

5. Academic Staff

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6. Credits, Grading and GPA

Credits

(Name) University is following the Bologna Process with the European Credit Transfer System (ECTS) credit system. The total degree program number of ECTS is 240, 30 ECTS per semester. 1 ECTS is equivalent to 25 hrs student workload, including structured and unstructured workload.

Grading

Before the evaluation, the results are divided into two subgroups: pass and fail. Therefore, the results are independent of the students who failed a course. The grading system is defined as follows:

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:				
Number 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.				

Calculation of the Cumulative Grade Point Average (CGPA)

1. The CGPA is calculated by the summation of each module score multiplied by its ECTS, all are divided by the program total ECTS.

   CGPA of a 4-year B.Sc. degree:

   CGPA = [(1st ^{m}odule score x ECTS) + (2nd ^{m}odule score x ECTS) + ……] / 240

7. Curriculum/Modules

Semester 1 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
UOB102	English language	32	18	2	B	
UOB104	Democracy and Human rights	32	18	2	B	
GPLA128	general plant	78	97	7	C	
MATH111	mathematics	48	77	5	B	
FICR115	field crops	78	97	7	B	
ENDR117	Engineering Drawing	48	127	7	B	

Semester 2 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request
UOB101	Arabic language	32	18	2	B	
UOB103	Computer	33	42	3	B	
SOIL114	soil science	78	97	7	B	
FOIN131	food industries	78	72	6	B	
PLSU118	plant surveying	78	72	6	B	
ORCH125	organic chemistry	78	72	6	B	

Semester 3 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request

Semester 4 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request

Semester 5 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request

Semester 6 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request

Semester 7 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request

Semester 8 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	SSWL	USSWL	ECTS	Type	Pre-request

Contact

1. Overview

This catalogue is about the courses (modules) given by the program of Agriculture science to gain the Bachelor of Science degree. The program delivers (48) Modules with (6000) total student workload hours and 240 total ECTS. The module delivery is based on the Bologna Process.

نظره عامه

يتناول هذا الدليل المواد الدراسية التي يقدمها برنامج العلوم الزراعية للحصول على درجة بكالوريوس. يقدم البرنامج (48) مادة دراسية، على سبيل المثال، مع (6000) إجمالي ساعات حمل الطالب و 240 إجمالي وحدات أوروبية. يعتمد تقديم المواد الدراسية على عملية بولونيا.

2. Undergraduate Courses 2024-2025

Module 1

Code	Course/Module Title	ECTS	Semester
UOB102	English language	2	1
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
2	0	32	18
Description			
This section includes a description of the module, 100-150 words			

Module 2

Code	Course/Module Title	ECTS	Semester
UOB104	Democracy and Human rights	2	1
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
2	0	32	18
Description			
This section includes a description of the module, 100-150 words			

Module3

Code	Course/Module Title	ECTS	Semester
GPLA128	general plant	7	1
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
2	3	78	97
Description			
This section includes a description of the module, 100-150 words			

Module 4

Code	Course/Module Title	ECTS	Semester
MATH111	Mathematics	5	1
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
3		48	77
Description			
This section includes a description of the module, 100-150 words			

Module 5

Code	Course/Module Title	ECTS	Semester
FICR115	field crops	7	1
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
2	3	78	97
Description			
This section includes a description of the module, 100-150 words			

Module 6

Code	Course/Module Title	ECTS	Semester
ENDR117	Engineering Drawing	7	1
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
2	3	78	97
Description			
This section includes a description of the module, 100-150 words			

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Module 7

Code	Course/Module Title	ECTS	Semester
UOB101	Arabic language	2	2
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
2		32	18
Description			
This section includes a description of the module, 100-150 words			

Module 8

Code	Course/Module Title	ECTS	Semester
UOB103	Computer	3	2
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
	2	33	42
Description			
This section includes a description of the module, 100-150 words			

Module 9

Code	Course/Module Title	ECTS	Semester
SOIL114	soil science	7	2
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
2	3	78	97

Description
This section includes a description of the module, 100-150 words

Module 10

Code	Course/Module Title	ECTS	Semester
FOIN131	food industries	6	2
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
2	3	78	72
Description			
This section includes a description of the module, 100-150 words			

Module 11

Code	Course/Module Title	ECTS	Semester
PLSU118	plant surveying	6	2
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
2	3	78	72
Description			
This section includes a description of the module, 100-150 words			

Module 12

Code	Course/Module Title	ECTS	Semester
ORCH125	organic chemistry	6	2
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
2	3	78	72
Description			
This section includes a description of the module, 100-150 words			

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Module 48

Code	Course/Module Title	ECTS	Semester
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
Description			
This section includes a description of the module, 100-150 words			

Contact

Program Manager:

John Smith | Ph.D. in Biology | Assistant Prof.

Email:

Mobile no.:

Program Coordinator:

John Smith | Ph.D. in Biology | Assistant Prof.

Email:

Mobile no.:

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MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Democracy and Human Rights**			**Module Delivery**	
Module Type	**Basic**			☒ **Theory**	
Module Code	**UOB104**			☐**Lecture**	
ECTS Credits	**2**			☐ **Lab**	
SWL (hr/sem)	**50**			☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Level	1		**Semester of Delivery**	1	
Administering Department	**Animal Production**		**College**	**Agriculture**	
Module Leader	Name		**e-mail**	E-mail	
Module Leader's Acad. Title	Assist. Prof.		**Module Leader's Qualification**	Ph.D.	
Module Tutor	Wedad Salim Mohammad Al-Neam		**e-mail**	E-mail widad.mohammad@uobasrah.edu.iq	
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	أ . تعليم الطلبة على أساسيات حقوق الإنسان وقوانينه. ب. التعرف على الحقوق وأهم الإشكاليات والتحديات التي تواجهها. ج- تحديد وفهم المفاهيم المتعلقة بالحريات، بمافي ذلك الحقوق الفردية والحريات الشخصية . د. تنمية القدرة على التفكير النقدي حول القضايا المتعلقة بالحريات والحقوق الفردية.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1-أن يعرف الطالب مفهوم الحقوق وقوانينها وتطبيقاتها. 2-أن يعرف الطالب كيفية المشاركة ف ي نشر الحقوق وتطبيقها بالعمل الواقعي الحقيقي. 3-القدرة على استخدام الحقوق وسيلة من أجل التعايش السلمي بين مكونات المجتمع وجميع المخلوقات. 4-القدرة على مشاركة الآخرين في نشر هذه الحقوق. 5-القدرة على تحليل وتعريف مفهوم الحرية والتمييز بين أنواع مختلفة من الحريات. 6-التفاعل مع قضايا الحريات على الصعيدين الوطني والدولي والتأثير في تشكيل الرأي العام.
Indicative Contents المحتويات الإرشادية	الحقوق والحريات الأساسية وغير الأساسية الحقوق والحريات المدنية الحقوق السياسية حقو ق الانسان والقانون الدولي الإنساني

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1-المشاركة بالتحضير في قاعة الدرس 2-طريقة الأسئلة والأجوبة في قاعة الدرس 3-الواجبات ت 4-التقارير

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	2
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 الحقو ق

Week 2	أنواع حقوق الانسان
Week 3	الحقوق الأساسية وغير الأساسية
Week 4	الحقوق المدنية، الحقوق السياسية
Week 5	الحقوق الاقتصادية والاجتماعية والثقافية الحقوق الفردية والحقوق الجماعية
Week 6	طائفة الحقوق الجديد ة حقوق الانسان والقانون الدو لي الإنساني العلاقة بين حقوق الانسان والقانون الدو لي الانساني
Week 7	امتحان
Week 8	ما هو مفهوم الحريات: مصطلح الحرية والحريات العامة
Week 9	التطور في مفهوم الحريات العامة
Week 10	أشكال الحريات العامة وأنواعه
Week 11	النظام القانوني للحريات العامة
Week 12	تنظيم الحريات العامة من قبل السلطات العامة
Week 13	ضمانات الحريات العامة
Week 14	الحريات في الفكر السياسي الحديث
Week 15	الامتحان النهائي

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، وضماناتها 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
	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	**General plant**			**Module Delivery**	
Module Type	**Core**			☒**Theory** ☐ **Lecture** ☒ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**GPLA128**				
ECTS Credits	**7**				
SWL (hr/sem)	**175**				
Module Level	1		**Semester of Delivery**	**One**	
Administering Department	**horticulture**		**College**	**Agriculture**	
Module Leader	**Dr. Zainab abdalameer Saihood**		**e-mail**	**E-mail:** ZainabSaihood.uobasrah.edu.iq	
Module Leader's Acad. Title	**Teacher**		**Module Leader's Qualification**	**Ph.D.**	
Module Tutor			**e-mail**	**Email**	
Peer Reviewer Name	Name		**e-mail**	E-mail	
Scientific Committee Approval Date	3/10/2024		**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	What is botany and what are its branches? 1- Introducing the student to the plant kingdom, its divisions, and the morphological and physiological form of the plant. 2- Helping students understand the syllabuses and vocabulary of the general botany lesson and curriculum. 3- Introducing methods of diagnosing plants through their appearance.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. 1. A historical overview of plants, their importance, and branches of botany 2. . Introducing students to the plant kingdom 3. Introducing students to the plant cell 4. Types of cell division and phases of division
Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	1- Enabling students to think and analyze topics related to the intellectual framework of the of the general plant subject. 2- Enabling students to think and analyze topics related to measuring productivity. 3- Enabling students to think and analyze how to know the anatomical structure of different plant parts 4- Enabling students to think and analyze to learn about the different branches of botany

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)	**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	A historical overview of plants, their importance, and branches of botany
Week 2	Reviewing the different plant parts, types of plants, their shapes, and divisions.
Week 3	Divisions of the plant kingdom into several groups.
Week 4	Plant cell and its components.
Week 5	Types of cell division and phases of division.
Week 6	Presentation of plant tissues and basic types of tissues.

Week 7	Components of connective tissue and study of stomata.
Week 8	Hairs and hair growths + types of hairs
Week 9	Displaying the components of the bark (sieve tubes, companion cells, phloem parenchyma, bast fibers)
Week 10	Displaying the components of wood (vessels, tracheids, wood fibers, wood parenchyma). . Second Exam.
Week 11	Take up all the side, side, center and other beams
Week 12	Components of the stems of dicot and dicot plants.
Week 13	Components of the stems of dicot and dicot plants .Third Exam.
Week 14	The effect of environmental factors on the morphological characteristics of land and aquatic plants
Week 15	Introducing to type of fruits and seeds
Week 16	End of Semester Exam.

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر(الحقل **Filed**)	
	Material Covered
Week 1	Lab 1: Introducing to Microscope
Week 2	Lab 2:Plant cell.
Week 3	Lab 3:.cell division.
Week 4	Lab 4:plant tissues.
Week 5	Lab 5: Learning Dermal or Bundry Tissues.
Week 6	Lab 6:conducting Tissues.
Week 7	Lab 7: Secretory tissues.
Week 8	Lab 8:Root system.
Week 9	Lab 9:shoot system.
Week 10	Lab 10 :The leaf sheep .

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	General Plant Book, Hussein Al-Arousi, 2007.	**No**
Recommended Texts	The Book of General Plants, Ahmed Muhammad Mujahid, Mustafa Abdel Aziz, Ahmed Al-Baz Younis, Abdel Rahman Amin, 1986.	No

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	**Mathematics**		**Module Delivery**	
Module Type	**Basic**		☒ **Theory** ☐ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**MATH111**			
ECTS Credits	**5**			
SWL (hr/sem)	**125**			
Module Level	1	**Semester of Delivery**	1	
Administering Department	Horticulture	**College**	Type College Code	
Module Leader	Name	**e-mail**	E-mail	
Module Leader's Acad. Title	Assist. Lecturer	**Module Leader's Qualification**	M.Sc.	
Module Tutor	Jenan abdulemam najem	**e-mail**	jenan.najem@uobasrah.edu.iq	
Peer Reviewer Name	Name	**e-mail**	E-mail	
Scientific Committee Approval Date	1/09/2024	**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	• توضيح اهمية 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	• 1- يلم بالطرق الإحصائية الخاصة بالعمليات الزراعية وتنظيمها وعرضها وتحليلها.. • 2- يلم بمقاييس التمركز والتشتت ذات العلاقة بالإنتاج الزراعي. • 3- سيكتسب الطالب المهارات لمعرفة منحنى 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 ايجادها 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 المثلثية وخواصها

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	الاستراتيجية الرئيسية التي سيتم اتباعها في تقديم هذه الوحدة هي تشجيع الطلاب على المشاركة في التمارين، وفي الوقت نفسه صقل وتوسيع مهارات التفكير النقدي لديهم. وسيتم تحقيق ذلك من خلال الفصول الدراسية والدروس التفاعلية وحل التمارين والنظر في أنواع التجارب البسيطة التي تنطوي على بعض أنشطة أخذ العينات وكيفية وصفها احصائيا وتحليلها التي تهم الطلاب.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا

Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	77	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	48	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	3
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	الدالة

Week 2	مجال الدالة
Week 3	مدى الدالة
Week 4	غاية الدالة
Week 5	غاية الدالة عند اللانهاية محاضرة+ امتحان
Week 6	رسم الدالة
Week 7	اشتقاق الدالة
Week 8	معادلة المماس للدالة
Week 9	التكامل الغير محدد
Week 10	التكامل المحدد
Week 11	الدوال المثلثية
Week 12	الدوال اللوغارتمية
Week 13	الدوال الاسية
Week 14	التكامل بالتعويض
Week 15	الامتحان الثاني

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	ابحاث مختلفة عن الدوال والتكاملات	No
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	**field crops**	**Module Delivery**	
Module Type	**basic**	☒**Theory** ☒**Lecture** ☒**Lab** ☐**Tutorial** ☐**Practical** ☐**Seminar**	
Module Code	**FICR115**		
ECTS Credits	**7**		
SWL (hr/sem)	**175**		
Module Level	1	**Semester of Delivery**	1

Administering Department	horticulture	**College**	Agriculture
Module Leader	Dr.Sabreen Hazim	**e-mail**	Sabreen.hazim@uobasrah.edu.iq
Module Leader's Acad. Title	Asst.Professor	**Module Leader's Qualification**	Ph.D.
Module Tutor	Dr.sabreen Hazim	**e-mail**	Sabreen.hazim@uobasrah.edu.iq
Peer Reviewer Name	Dr.sabreen Hazim	**e-mail**	Sabreen.hazim@uobasrah.edu.iq
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 أهداف المادة الدراسية	1. Knowing the basics of field crop management 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	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

مخرجات التعلم للمادة الدراسية	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

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	The concept of field crops science - divisions of field crops - scientific nomenclature
Week 2	Soil service operations - 1 - plowing - benefits of plowing - machines used in the plowing process
Week 3	Soil Service Operations 2- Smoothing 3- Leveling 4- Laser Leveling- Advantages of Land Amendment
Week 4	operations - methods of cultivation - A - method of cultivation according to the method of placing seeds in the soil (in terms of performance). B - The method of cultivation according to the moisture content of the soil when sowing. C - The method of cultivation according to the irrigation system. Advantages and disadvantages of each method

Week 5	**Crop service operations - hoeing 3- grafting - grafting - planting depth - planting distances**
Week 6	**Germination of field crop seeds - factors affecting germination - types of germination** **Calculate the percentage of germination**
Week 7	Mid-term Exam +
Week 8	**Conducting a laboratory experiment - Requirements and how to conduct germination tests - Writing a report**
Week 9	**Botanical description of cereal and leguminous crops - display models**
Week 10	**Botanical description of oil crops and sugar crops - display models**
Week 11	**A field visit to nearby crop fields to learn about plants**
Week 12	**(Irrigation and drainage) - Irrigation methods - General benefits for the construction of drains**
Week 13	**Fertilizers and fertilization - types of fertilizers - ways to add fertilizers**
Week 14	**Harvest - Early and Late Harvest Damage**
Week 15	**Preparatory week before the final Exam**

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	**The concept of field crops science - divisions of field crops - scientific nomenclature**
Week 2	**Soil service operations - 1 - plowing - benefits of plowing - machines used in the plowing process**
Week 3	**Soil Service Operations 2- Smoothing 3- Leveling 4- Laser Leveling- Advantages of Land Amendment**
Week 4	**operations - methods of cultivation - A - method of cultivation according to the method of placing seeds in the soil** **(in terms of performance).** **B - The method of cultivation according to the moisture content of the soil when sowing.** **C - The method of cultivation according to the irrigation system. Advantages and disadvantages of each method**

Week 5	**Crop service operations - hoeing 3- grafting - grafting - planting depth - planting distances**
Week 6	**Germination of field crop seeds - factors affecting germination - types of germination** **Calculate the percentage of germination**
Week 7	**Conducting a laboratory experiment - Requirements and how to conduct germination tests - Writing a report**

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
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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MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية			
Module Title	**Engineering Drawing**	**Module Delivery**	
Module Type	**Core**	☒**Lab** ☒ **Tutorial** ☒ **Practical**	
Module Code	**ENDR117**		
ECTS Credits	**7**		
SWL (hr/sem)	**175**		
Module Level	1	**Semester of Delivery**	1

Administering Department		**College**	Agriculture
Module Leader	Asmaa Abd Ala AL Aedan	**e-mail**	E-mail
Module Leader's Acad. Title	lecture	**Module Leader's Qualification**	Msc.
Module Tutor	Ali Hussein Awad	**e-mail**	ali.awad@uobasrah.edu.iq
Peer Reviewer Name	Assad Yousif Khudher	**e-mail**	E-mail assad.khudher@uobasrah.edu.iq
Scientific Committee Approval Date	01/09/2024	**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	• Working in the field of engineering drawing to create engineering plans and drawings • Obtaining the skills required for the post-graduation plan (postgraduate studies). • Applying for external tests by local/regional/international bodies. • Providing students with skills to work in scientific and research laboratories and study engineering drawing
Module Learning Outcomes	1- Learn about manual drawing tools and modern methods 2- Correct installation of the drawing board and implementation of the

مخرجات التعلم للمادة الدراسية	information table 3- Professional drawing of lines, curves and circles 4- Drawing of projections 5- Other methods for drawing projections 6- Perspective drawing 7- Section drawing, shading and drawing hidden parts 8- Detailed drawing 9- Assembly drawing 10- Inking 11- Methods of saving drawing boards 12- Quick drawing 13- Documenting and authenticating the boards 14- Executive drawing 15- Learn about automated drawing
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. - Accuracy - Imagination - Clear ideas before starting to draw - Taking into account all dimensions includes the dimensions of the size and the dimensions of the site - Take all the information, date and ratification Determine the shades of the cut, the vehicle and the hidden parts - Setting details to read the painting and all process and assembly fees - Clean and taking into account the conditions for saving paintings

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	-To practice in the first place and apply scientific conditions in drawing parts and mechanical systems - Watch models and models on reality (physics) to help imagine and apply - Evaluating the duties after completing them immediately Classical evaluation and the end of the course

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	127	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	5
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	All 3 h Structured
	Assignments	2	10% (10)	2 and 15	All 3 h Structured
	Projects / Lab.	10	20% (20)	Continuous	All hours Structured
	Report	0	0	0	
Summative assessment	**Midterm Exam**	2hr	10% (10)	7	The Structured after 7 week
	Final Exam	3hr	50% (50)	16	The Structured all 16

					week
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي نظري +العملي (مختبر الرسم)	
	Material Covered
Week 1	Introduction to engineering drawing tools
Week 2	Introduction to the types of engineering drawing lines
Week 3	How to plan and install a drawing board
Week 4	Engineering operations, part one, includes A- Bisecting a straight line and B- Bisecting an angle.
Week 5	Engineering operations, part two, includes: C- Draw a pentagon inside a circle.
Week 6	Engineering operations, part three, includes: D- Draw a hexagon given the side length and E- Draw a hexagon surrounding a circle
Week 7	Engineering operations, part four, includes: E- Draw an arc tangent to a straight line
Week 8	Engineering operations, part Five, includes: F- Draw an arc tangent to the circumference of a circle and a known straight line and Draw a tangent to an interior circle.
Week 9	Dimensions of size and dimensions of the site
Week 10	Drawing of the projected (three faces)
Week 11	The drawing of the engineering (six faces)
Week 12	Perspective drawing (model)
Week 13	Draw the pieces and script
Week 14	The concept of detailed and assembly
Week 15	Inheritance

Week 16	The concept of drawing using the machine and Preparatory week before the final Exam

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	الرسم الهندسي لطلبة كليات الزراعة. د. ناطق صبري حسن. 9	Yes
Recommended Texts	Engineering drawing for engineers and technicians	No
Websites	https://books-library.net/free-1020743869-download	

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**			☒ **Theory** ☐**Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**UOB101**				
ECTS Credits	**2**				
SWL (hr/sem)	**50**				
Module Level		1	**Semester of Delivery**		1
Administering Department		horticulture	**College**	Agriculture	
Module Leader	Name		**e-mail**	E-mail	
Module Leader's Acad. Title		Professor	**Module Leader's Qualification**		Ph.D.
Module Tutor	Wedad Salim Mohammad Al-Neam		**e-mail**	E-mail widad.mohammad@uobasrah.edu.iq	

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	أهمية اللغة العربية للاختصاصات العلمية وميزتها بين اللغات الحية تجنب الاخطاء 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. 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 (الجذر). المستوى الصوتي: وهو المستوى الذي يدرس الحروف والحركات والمقاطع الصوتية سواء كانت لفظا أو جزءا من لفظ.

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	The main strategy that will be adopted in delivering this module are: 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.

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	2
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	أهمية اللغة العربية
Week 2	للاختصاصات
Week 3	العلمية، وميزتها بين
Week 4	اللغات الحية
Week 5	سورة الكهف أسباب
Week 6	تفسير عشرون آية مع
Week 7	الحفظ
Week 8	قواعد اللغة
Week 9	العربية/قواعد في
Week 10	الإعراب
Week 11	المبتدأ والخبر
Week 12	الاحرف المشبهة
Week 13	بالفعل
Week 14	الأفعال الناقصة
Week 15	المفاعيل

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**			**Module Delivery**	
Module Type	**BASIC**			☒**Lab** ☒ **Tutorial** ☒ **Practical**	
Module Code	UOB103				
ECTS Credits	**3**				
SWL (hr/sem)	**75**				
Module Level	1		**Semester of Delivery**	Second	
Administering Department	**Horticulture and Landscape**		**College**	**Agriculture**	
Module Leader	**ZYAD TARQ SAFY**		**e-mail**	E-mail	
Module Leader's Acad. Title	lecture		**Module Leader's Qualification**	PH.D	
Module Tutor	**DR.ZYAD TARQ SAFY**		**e-mail**	zyad.safy@uobasrah.edu.iq	
Peer Reviewer Name			**e-mail**		
Scientific Committee Approval Date	01/09/2024		**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	• For the purpose of development and speed in the use of arithmetic operations. • For the purpose of using the computer in scientific and practical life. • For the purpose of using the computer in all the country's systems. • The urgent need for it due to the development in the science of technology • Today's era has become the era of computers.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. The basic elements that make up the Microsoft Word window 2. Office Button Tools and Quick Access Toolbar Customization 3. Homepage 4. Drawer List 5. Page layout 6. List of references 7. mailing list 8. List of references 9. Display menu 10. extra jobs 11. How to write inside each cell 12. How to design and coordinate all images and shapes in the Word program 13. How to draw shapes and graphs in Word 14. How to draw shapes and graphs in Word 15. Methods of drawing, designing and coordinating tables
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. The study of applications in the computer is considered one of the basic and important lessons in the global and Arab society in general and the Iraqi community in particular, given that the era has become the age of technology, in addition to that, today all uses are the computer in all scientific and literary

	disciplines, as well as the use of the computer in all research developments in all sciences, so it is preferable to Everyone has the ability to use a computer

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	-Primarily training and applying scientific conditions in scientific and practical computer applications - Watch models and models on reality (physics) to help imagine and apply - Evaluating the duties after completing them immediately Classical evaluation and the end of the course

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	33	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	42	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	3
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	75		

Module Evaluation تقييم المادة الدراسية				
	Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**

Formative assessment	**Quizzes**	2	10%(10)	5 and 10	All 3 h Structured
	Assignments	2	10% (10)	2 and 15	All 3 h Structured
	Projects / Lab.	10	20% (20)	Continuous	All hours Structured
	Report	0	0	0	
Summative assessment	**Midterm Exam**	2hr	10% (10)	7	The Structured after 7 week
	Final Exam	3hr	50% (50)	16	The Structured all 16 week
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي نظري +العملي (مختبر الرسم)

	Material Covered
Week 1	The basic elements that make up the Microsoft Word window
Week 2	Office Button Tools and Quick Access Toolbar Customization
Week 3	Homepage
Week 4	Drawer List
Week 5	Page layout
Week 6	List of references
Week 7	mailing list
Week 8	List of references
Week 9	Display menu
Week 10	extra jobs
Week 11	How to write inside each cell
Week 12	How to design and coordinate all images and shapes in the Word program

Week 13	How to draw shapes and graphs in Word
Week 14	How to draw shapes and graphs in Word
Week 15	Methods of drawing, designing and coordinating tables
Week 16	Mid Exam

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	Computer basics and office applications, part one	
Recommended Texts	Computer basics and office applications, part tow	
Websites	https://books-library.net/free-1020743869-download	

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	**soil science**			**Module Delivery**	
Module Type	**basic**			☒**Theory** ☒**Lecture** ☒**Lab** ☐**Tutorial** ☐**Practical** ☐**Seminar**	
Module Code	**SOIL114**				
ECTS Credits	**7**				
SWL (hr/sem)	**175**				
Module Level	1		**Semester of Delivery**	2	
Administering Department	Horticulture and landscape		**College**	Agriculture	
Module Leader	Mohsin Abdulhay Desher		**e-mail**	Mohsen.disher@uobasrah.edu.iq	
Module Leader's Acad. Title	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	03/09/2024		**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	Definition of soil, its components, and formation factors that are usually within the soil body, and the developments that occur in its body from the outside due to many factors such as: climate, topography, time, microbiology, and others. Physical properties such as (texture, structure, bulk and true density, color, temperature, etc.) and chemical properties such as (salinity, colloidal minerals, pH, etc.) and biological properties will also be studied.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	Important: Write at least 6 Learning Outcomes, better to be equal to the number of study weeks. The properties of organic soil will also be studied and the extent of their impact on the physical and chemical properties of the soil, plant growth, and increased productivity, as well as soil classification, especially the soil of the southern region of Iraq, which includes studying the major and subgrade levels with the aim of classifying them according to climate, color, and the presence of organic matter in them, and thus explaining the use of any type of Soil for agricultural uses, whether plant, animal, etc.
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. A detailed theoretical explanation will be given to the subject chapters related to everything related to soil. Field visits to fields will also be conducted to identify soil types and take models from them, and thus conduct laboratory experiments on the collected soil models. There is also the possibility of visiting relevant departments. The semester includes daily and monthly exams and a request to prepare periodic reports on the subjects studied by the student.

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.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ أسبوعا			
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	**Defined of Soil and soil formation factors and operation**
Week 2	**Soil physics (Texture , structure , Soil color , Heat ....etc)**
Week 3	**Soil water content**
Week 4	**1st examination**
Week 5	**Soil colludes and chemical properties**
Week 6	**Salinity and alkilne soil**
Week 7	**Reclamation soils effected by salinity**
Week 8	**Soil microbiology**
Week 9	**Organic matter in soil**
Week 10	**2nd examination**
Week 11	**Soil classification**
Week 12	**Soil survey**
Week 13	**Minerals in soil**
Week 14	**Movement nutrition in soil and deficiency characteristics**
Week 15	**Preparatory week before the final Exam**
Week 16	

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Lab 1: Taking soil samples and preparing them for analysis

Week 2	Lab 2: Methods for measuring soil moisture
Week 3	Lab 3: experiment measuring Soil texture
Week 4	Lab 4: experiment measuring Soil bulk density and soild density
Week 5	Lab 5: Exam
Week 6	Lab 6: preparation of extracts and measurement pH and Ec
Week 7	Lab 7: Estimation of carbonate and bicarbonate in soil
Week 8	Lab 8: Estimation of cations and ions in soil and water
Week 9	Lab 9:Organic matter determination by Walky & Black method
Week 10	Lab 10:Exam
Week 11	Lab 11: MeasuringThe Movement of water in the soil
Week 12	Lab 12: study microbiology in soil and Measuring bacteria number and fungi

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Principles of soil science (1980) Najm abdullah Al-A Principles of soil science parctical 1988 Munther Majid and emad basher	Yes
Recommended Texts		No
Websites	Google	

Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks %	Definition
Success Group	**A -** Excellent	امتياز	90 - 100	Outstanding Performance

(50 - 100)	**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	**FX –** Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
(0 – 49)	**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	**FOOD INDUSTRIES**		**Module Delivery**	
Module Type	**BASIC**		☒**Theory** ☒**Lecture** ☒**Lab** ☐**Tutorial** ☐**Practical** ☐**Seminar**	
Module Code	FOIN131			
SWL (hr/sem)	150			
Module Level	1	**Semester of Delivery**		2
Administering Department	Food science	**College**	Agriculture	
Module Leader	*: LINA SAMEER MOHAMMED*	**e-mail**	lina.mohammed@uobasrah.edu.iq	
Module Leader's Acad. Title	lecturer	**Module Leader's Qualification**		Ph.D.
Module Tutor	*LINA SAMEER MOHAMMED*	**e-mail**	lina.mohammed@uobasrah.edu.iq	
Peer Reviewer Name	Name	**e-mail**	E-mail	
Scientific Committee Approval Date		**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 following can be reached:- • Study methods of food preservation • Study the advantages and disadvantages of each method of preservation • Studying the effect of each method on the type of food • Raw materials are exposed to manufacturing processes for the purpose of converting them into materials suitable for human consumption • Study of food additives, their types and functions • Studying the causes of food spoilage
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	The graduate of the department is awarded a degree (Bachelor of Food Sciences) And acquires the following skills: 1- The ability to know food chemistry 2- The ability to know and bear responsibility. 3- The ability to communicate. 4- The ability to use skills in food sciences. 5- The ability to intertwine with other disciplines to serve them
Indicative Contents المحتويات الإرشادية	The guiding content includes the following. **Food industries are important and basic topics because food is related to human health. Food manufacturing began in the form of individual practices for the purpose of preserving food from time to time as an integral part of the human struggle for survival and self-preservation. The process of manufacturing and preserving different foods until they reach the consumer safely is very important, as several methods of food preservation have been studied, such as drying, canning, freezing, cooling and smoking for the purpose of prolonging the period of preservation and ease of transportation and obtaining them in the off-season. Also, knowing the causes of food spoilage and the role of food additives in food.**

Learning and Teaching Strategies استراتيجيات التعلم والتعليم

Strategies	

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	4
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	The importance of the food industry
Week 2	Food preservation methods
Week 3	vinegar industry
Week 4	ferments
Week 5	Juice industry
Week 6	food spoilage
Week 7	food additives, their types and functions
Week 8	tea industry
Week 9	Jam industry
Week 10	Meat Products Manufacturing
Week 11	food ingredients
Week 12	Vitamins and minerals
Week 13	Tomato products industry
Week 14	Bread industry
Week 15	**Preparatory week before the final Exam**
Week 16	**the final Exam**

Delivery Plan (Weekly Lab. Syllabus)

المنهاج الاسبوعي للمختبر

	Material Covered
Week 1	Lab 1: Preparation of solutions and methods of measuring them
Week 2	Lab 2: Steps for making kajb and tomato paste
Week 3	Lab 3: Jelly, jam and marmalade making
Week 4	Lab 4: Bread and bun making
Week 5	Lab 5: Date molasses industry
Week 6	Lab 6: Pickle industry
Week 7	Lab 7: Juice industry
Week 8	Lab 8 : Food preservation by natural drying
Week 9	Lab 9 : Food preservation by industrial drying
Week 10	Lab 10 : Food preservation by lactic fermentation
Week 11	Lab 11 : Food preservation by acetic fermentation
Week 12	Lab 12 : Food preservation by alcoholic fermentation
Week 13	Lab 13 : Preserving food by pickling
Week 14	Lab 14 : Preserving food by salting
Week 15	**Preparatory week before the final Exam**
Week 16	**the final Exam**

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	[1] Fundamentals of general chemistry	Yes

	(2) Food manufacturing	
Recommended Texts	Al-Aswad, Majid Bashir et al. (1993). Principles of the food industry. House of Books for Printing and Publishing, Mosul. P 320.	Yes
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	Plane Surveying	Module Delivery
Module Type	Basic	☒ Theory
Module Code	PLSU118	☒ Lecture
ECTS Credits	6	☐Lab
SWL (hr/sem)	150	☐ Tutorial ☐ Practical ☒ Seminar

Module Level	1	**Semester of Delivery**	2
Administering Department	horticultre	**College**	Agriculture
Module Leader		**e-mail**	
Module Leader's Acad. Title	Assistant professor	**Module Leader's Qualification**	Ph.D.
Module Tutor	Ahmed A. Mohammed Almothefer	**e-mail**	ahmad.mohammed@uobasrah.edu.iq
Peer Reviewer Name	Name	**e-mail**	E-mail
Scientific Committee Approval Date	29/08/2024	**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	Confirming the location of engineering works and planning and constructing agricultural projects such as canals, farms, orchards, etc.

أهداف المادة الدراسية	
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	Introducing the student to how to level agricultural land and measure its dimensions and area using the best methods used in this field and using the appropriate equipment for each method
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. 1-Drawing scales and their types 2-Measure distances across obstacles 3- Leveling irregular areas and using distance measuring tools

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Students rely on their own abilities in agricultural projects

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	72	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	78	**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	Functions
Week 2	Domain of Functions
Week 3	Range of Functions
Week 4	Limits of Functions
Week 5	limits at Infinity
Week 6	Function Graphing
Week 7	Derivation of Function
Week 8	Equation of the Tangent
Week 9	Indefinite Integration

Week 10	Definite Integration
Week 11	Trigonometric Functions
Week 12	Logarithmic Functions
Week 13	Exponential Functions
Week 14	Integration Methods
Week 15	**Preparatory week before the final Exam**

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	1) Ayres,Frank and Mendelson,Elliott.,(2012),Schaum's Outline of Calculus, 6th Edition. US:McGraw- Hill 2) Thomas, Jr., Weir, Hass, (2014), Thoma's Calculus, 13th Edition. Pearson	Yes

Recommended Texts	Various Research on Functions and Integrals	No
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
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MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية		
Module Title	**Organic Chemistry**	**Module Delivery**
Module Type	**BASIC**	☒**Theory** ☒**Lecture** ☒**Lab**
Module Code	ORCH125	

		☐Tutorial ☐Practical ☐Seminar
ECTS Credits	**6**	
SWL (hr/sem)	**150**	

Module Level	1	**Semester of Delivery**	2
Administering Department	Type Dept. Code	**College**	College of Agriculture
Module Leader	Maryam abdulbary	**e-mail**	E-mail
Module Leader's Acad. Title	Assistant Professor	**Module Leader's Qualification**	Master
Module Tutor	Name (if available)	**e-mail**	mariam.ouraiby@uobasrah.edu.iq
Peer Reviewer Name	Name	**e-mail**	E-mail
Scientific Committee Approval Date		**Version Number**	

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 Outcomes	1- Green chemistry 2- Sustainable development 3- Water purification 4- Environmental development

مخرجات التعلم للمادة الدراسية	5- pollution measurement 6- - Waste recycling- 7- Studying the level of university education and the mechanisms for its development – 8- Study aspects of developing green areas
Indicative Contents المحتويات الإرشادية	The organic chemistry curriculum is one of a series of important 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 - 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, 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..

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)**	4

الحمل الدراسي غير المنتظم للطالب خلال الفصل		الحمل الدراسي غير المنتظم للطالب أسبوعيا	
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
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	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	An overview of organic chemistry and the classes of organic chemistry
Week 2	Alkanes
Week 3	Alkenes
Week 4	Alkynes
Week 5	Assignment 1

Week 6	aromatic hydrocarbons
Week 7	amines
Week 8	Alkyl
Week 9	alcohol halides
Week 10	Phenols
Week 11	ethers
Week 12	Aldehydes
Week 13	ketones
Week 14	carboxylic acids
Week 15	Assignment 2
Week 16	

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Physical properties of organic materials
Week 2	Boiling Point Measurement
Week 3	Purification of organic matter and recrystallization
Week 4	solubility of organic compounds
Week 5	Assignment 1
Week 6	Effective totals
Week 7	Detecting the double bond

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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Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	organic chemistry	Yes
Recommended Texts		
Websites		