University of Basrah

Agriculture college

First Cycle – Bachelor's Degree (B.Sc.) – Soil sciences and water resources

بكالوريوس – علوم التربة والموارد المائية

Academic Program Description Form

University Name: **University of Basrah**

Faculty/Institute: **College of Agriculture**

Scientific Department: **Department of Soil sciences and water resources**

Academic or Professional Program Name: **Soil sciences and water resources**

Final Certificate Name: **Bachelor's**

Academic System: **Semester system**

Description Preparation Date: **11 June 2025**

File Completion Date: **18 June 2025**

Signature:

Head of Department Name:

Prof. Dr. Mohsin Abdulhay Desher

Date: **18 June 2025**

Signature:

Scientific Associate Name:

Prof. Dr. Sadiq Jabar Muhsin

Date: **19 June 2025**

The file is checked by: **Prof. Dr. Riyadh A. Al-Tameemi**

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: **25 June 2025**

Signature:

Prof. Dr. Sarmad Ghazi Mohammed Al-Shawi

Approval of the Dean

Table of Contents | جدول المحتويات

1. Mission & Vision Statement

Vision Statement

The faculty members of the Soil Science and Water Resources Department at the College of Agriculture, University of Basrah, believe that students gain a deep understanding of soil sciences and related fields through an integrated combination of coursework, laboratory experiments, scientific research, and fieldwork. This diversity in teaching methods enables a balanced comprehension of the scientific approaches used by soil and water scientists to make observations, develop insights, and formulate theories concerning soil and water environments and their surrounding climatic conditions. Small class sizes in the program also foster a close working relationship between faculty members and students in a supportive and encouraging atmosphere.

Mission Statement

The faculty members of the Soil Science and Water Resources Department at the University of Basrah strive to achieve multiple goals. The program aims to provide all students with foundational knowledge in soil and water sciences, alongside a deeper understanding of specialised areas within related fields. The curriculum and academic advising are designed to prepare graduates for their professional futures, whether they choose to work as specialists in plant science, ecology, or molecular biology or pursue advanced degrees in soil, water, and environmental sciences. The program also delivers essential knowledge to support agricultural production, ecological studies, and fellowship degrees in forest technology. Additionally, soil science courses provide fundamental field and laboratory scientific experience for students seeking to fulfil higher education requirements.

2. Program Specification

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

The Soil Science and Water Resources program is a broad field that aims to provide an integrated understanding of soil science and water resources management. The program focuses on studying the soil and water ecosystem, beginning with the chemical and physical properties of soil, and progressing through the role of water in natural and agricultural environments, to the complex interactions between soil, water, and living organisms. The degree is very popular; for some, it is because the program covers diverse knowledge areas, while for others, it represents a path to specialisation in soil science and water resources.

In the first year, students are introduced to the fundamentals of soil and water sciences, preparing them to progress in all program pathways. Core topics specific to the program are covered in the second year, followed by specialised courses focused on research in the third and fourth years. Graduates of the program are thus equipped to understand how scientific research enriches the educational process, in alignment with the university's vision and mission.

In the second, third, and fourth years, students can select more than half of their courses, provided that these courses include a variety that reflects the complexity of soil and water systems, ranging from molecular components to ecological functions, ensuring the depth and comprehensiveness of knowledge required for graduates in this discipline. Students can also develop their personal interests in various fields of soil science and water resources with the help of academic project supervisors.

The research program is activated from the outset through practical trainings integrated within courses or taught as separate practical modules, as well as research seminars and tutorial sessions. The program includes a compulsory field practical course in the first year that must be passed to advance to the second year, along with optional field courses in subsequent years. In the fourth year, all students undertake an independent research project, which may be a library-based, field-based, or laboratory-based project with a specific number of credit hours.

3. Program Objectives

The department aims to focus on developing the research and scientific skills of the department's students through graduation research projects, and to expand the focus of using geospatial and space technologies in surveying and evaluating soil and water resources, monitoring the agricultural environment and desertification, and transferring these experiences and information to the relevant sectors and participating in developing strategic solutions to the problems of water resources, environmental pollution and the risks of desertification.

4. Student Learning Outcomes

1) The student has a solid knowledge of basic sciences and applied agricultural sciences related to soil and water resources.
2) The student understands the basic concepts of soil science and water resources with the ability to relate them to the agricultural environment.
3) The student understands the principles of managing natural resources (soil and water) sustainably, with knowledge of irrigation and drainage techniques, and soil, water, and plant analysis. And the application of the principles of reclamation and combating desertification.
4) The student masters the use of modern concepts and techniques such as remote sensing, data analysis, and agricultural modelling to improve productivity and resource efficiency.
5) The student understands the impact of climatic and environmental factors on agricultural systems and understands the importance of reducing pollution and preserving biodiversity to ensure resource sustainability.
6) The student has a comprehensive understanding of agricultural terminology used in the labour market and realises the importance of recycling agrarian waste to enhance the farm economy.
7) The student understands the interrelationship between soil, water and plants and their impact on agricultural production.
8) The student can explain the importance of the role of fertilisation and plant nutrition in improving crops and increasing agricultural production.
9) The student is familiar with the basics of scientific research, experimental design, and results analysis, which supports his ability to contribute to research projects and scientific solutions to agricultural problems.
10) He recognises the importance of interacting with the rural community through agricultural extension and transferring modern knowledge to support sustainable development and enhance food security.
11) The student understands the ethical and professional framework related to agricultural and community work and is aware of his rights and duties within the framework of local and international work within the agricultural specialisation

5. Academic Staff

Faculty preparation		Requirements/Special Skills (If any)		Specialization		Academic rank
lecturer	angel			private	general	
	3			Soil fertility and fertilization	Soil Science and Water Resources	Mr
	3			Soil fertility and fertilization	Soil Science and Water Resources	assistant professor
	3			soil chemistry	Soil Science and Water Resources	Mr
	1			soil chemistry	Soil Science and Water Resources	assistant professor
	2			soil chemistry	Soil Science and Water Resources	teacher
	1			Soil management	Soil Science and Water Resources	Mr
	1			Soil management	Soil Science and Water Resources	assistant professor
	1			Soil survey and classification	Soil Science and Water Resources	Mr
	1			Soil survey and classification	Soil Science and Water Resources	assistant professor
	2			Microscopic soil regeneration	Soil Science and Water Resources	assistant professor
	1			Microscopic soil regeneration	Soil Science and Water Resources	teacher
	1			Soil and water maintenance	Soil Science and Water Resources	assistant professor
	1			Soil maintenance and water management	Soil Science and Water Resources	teacher
	1			Soil Physics	Soil Science and Water Resources	assistant professor
	1			land reclamation	Soil Science and Water Resources	assistant professor
	1			soil morphology	Soil Science and Water Resources	teacher
	1			Water Engineering	Civil Engineering	teacher
	1			soil salinity	Soil Science and Water Resources	teacher
	4			Soil Science and Water Resources	Soil Science and Water Resources	Assistant Professor

1				Field irrigation	Soil Science and Water Resources	Professor (Experienced)
1				date	College of Education	teacher
1				Arabic language	College of Education	teacher
1				mathematics	Mathematics	Assistant Professor
1				Organic Chemistry	Food Sciences	assistant professor
1				Organic Chemistry	Food Sciences	Assistant Professor
1				Fruit production	Horticulture and landscaping	Mr
1				Fruit production	Horticulture and landscaping	assistant professor
1				agricultural economy	Administration and Economics	assistant professor
1				Plant protection	Plant protection	assistant professor
1				Plant protection	Plant protection	Assistant Professor
1				Agricultural machinery and equipment	Agricultural machinery and equipment	teacher
1				Agricultural machinery and equipment	Agricultural machinery and equipment	Assistant Professor
1				Agricultural guidance	field crops	assistant professor
1				Physiology of a plant	Horticulture and landscaping	assistant professor
1				Physiology of a plant	Horticulture and landscaping	teacher
1				Horticulture and landscaping	Horticulture and landscaping	assistant professor
1				Horticulture and landscaping	Horticulture and landscaping	assistant professor
1				biochemistry	Livestock	assistant professor

6. Credits, Grading and GPA

Credits: The Agriculture University follows the Bologna Process with the European Credit Transfer System (ECTS) credit system. The total number of ECTS credits in the degree program is 240, with 30 ECTS credits per semester. 1 ECTS is equivalent to 25 hours of 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	Module	SSWL	USSWL	ECTS	Type	Pre-request
UOB104	**Democracy and Human Rights**	**الديمقراطية وحقوق الانسان**	**32**	**18**	**2.00**	**B**	
FICR115	**Field Crops**	**محاصيل حقلية**	**78**	**97**	**7.00**	**B**	
ACHM121	**Analytical chemistry**	**الكيمياء التحليلية**	**78**	**97**	**7.00**	**B**	
GEOL113	**Geology**	**جيولوجي**	**78**	**97**	**7.00**	**C**	
MATH111	**Mathematics**	**الرياضيات**	**78**	**47**	**5.00**	**B**	
UOB102	**English language**	**اللغة الانكليزية**	**32**	**18**	**2.00**	**B**	

Semester 2 | 30 ECTS | 1 ECTS = 25 hrs

Code	Module	Module	SSWL	USSWL	ECTS	Type	Pre-request
UOB101	**Arabic language**	**اللغة العربية**	**32**	**18**	**2.00**	**B**	
OCHM125	**Organic chemistry**	**الكيمياء العضوية**	**78**	**97**	**7.00**	**B**	
GPHY120	**Physics**	**الفيزياء**	**78**	**97**	**7.00**	**B**	
SOIL114	**Soil Science**	**علم التربة**	**78**	**97**	**7.00**	**C**	
UOB103	**Computer**	**الحاسوب**	**78**	**47**	**5.00**	**B**	
PLSU118	**Plane surveying**	**مساحة مستوية**	**32**	**18**	**2.00**	**B**	

8. Contact

Program Manager:

Mohsin Abdulhay Desher | Ph.D. in Agriculture Sciences | Prof.

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Program Coordinator:

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First Cycle – Bachelor's Degree (B.Sc.) – Soil sciences and water resources

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Table of Contents

1. Overview

This guide covers the courses offered by the Soil Science and Water Resources program for the academic year 2024-2025 under the Bologna Process track for the first stage, as this system applies exclusively to this stage. The program offers 12 courses, with a total student workload of 1500 hours and a total of 60 European credits.

2. Undergraduate Courses 2023-2024

Module 1

Code	Course/Module Title	ECTS	Semester
UOB104	Democracy and Human Rights الديمقراطية وحقوق الانسان	2	1
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
2	0	50	18
Description			

Module 2

Code	Course/Module Title	ECTS	Semester
FICR115	Field Crops محاصيل حقلية	7	1
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
2	3	78	97
Description			

Module 3

Code	Course/Module Title	ECTS	Semester
ACHM121	Analytical chemistry الكيمياء التحليلية	7	1

Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	3	78	97
Description			

Module 4

Code	Course/Module Title	ECTS	Semester
GEOL113	Geology جيولوجي	7	1
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
2	3	78	97
Description			

Module 5

Code	Course/Module Title	ECTS	Semester
MATH111	Mathematics الرياضيات	5	1
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
3	0	78	47

Module 6

Code	Course/Module Title	ECTS	Semester
UOB102	English language اللغة الانكليزية	2	1
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
2	0	32	18

Module 7

Code	Course/Module Title	ECTS	Semester
UOB101	Arabic language اللغة العربية	2	2

Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
2	0	32	18

Module 8

Code	Course/Module Title	ECTS	Semester
OCHM125	Organic chemistry الكيمياء العضوية	6	2
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
2	3	78	72

Module 9

Code	Course/Module Title	ECTS	Semester
GPHY120	Physics الفيزياء	6	2
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
2	3	78	72

Module 10

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

Module 11

Code	Course/Module Title	ECTS	Semester
UOB103	Computer الحاسوب	3	2

Class (hr/w)	Lect/Lab./Prac./Tutor	SSWL (hr/sem)	USWL (hr/w)
1	2	48	27

Module 12

Code	Course/Module Title	ECTS	Semester
PLSU118	Plane surveying مساحة مستوية	6	2
Class (hr/w)	**Lect/Lab./Prac./Tutor**	**SSWL (hr/sem)**	**USWL (hr/w)**
2	3	78	72
Description			

Contact

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Mobile no.: 07807274302

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية					
Module Title	**Plane surveying**			**Module Delivery**	
Module Type	**Core**			☒**Theory** ☒**Lecture** ☒**Lab** ☐**Tutorial** ☐**Practical** ☐**Seminar**	
Module Code	**A520**				
ECTS Credits	**4**				
SWL (hr/sem)	**60**				
Module Level	1		**Semester of Delivery**	1	
Administering Department	Soil department and water resources		**College**	Agriculture college	
Module Leader	Haifa Jassim Hussein		**e-mail**	hayfaa.hussein@uobasrah.edu.iq	
Module Leader's Acad. Title	Professor		**Module Leader's Qualification**	Ph.D.	
Module Tutor	Amin Hussain Jabal		**e-mail**	Amin.Hussain@uobasrah.edu.iq	
Peer Reviewer Name	Naglaa Mansour		**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	1- Identify the most important tools used in surveying. 2- Calculate areas and regular and irregular shapes. 3- Methods of installation and leveling. 4- Calculate excavation and backfill quantities. 5- Calculate distances when various types of obstacles are present. 6- How to divide irregular areas into measurable regular shapes
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1. student learns about the importance of land surveying, especially in agricultural fields, as well as the types of surveying List the various terms associated with electrical circuits. 2. Measurement systems, units of measurement, and errors. Learn about measurement systems and the differences between them. Learn about the units used in measurement, the relationship between them, and the errors that occur during measurement and how to avoid them. 3. Tape scanning, station selection criteria, and field book arrangement. Learn how to measure distance with a tape, the types of tapes 4. . , the factors affecting the accuracy of tape measurements, and how to correct the reading. 5. . Learn about map scale types and how to convert ground distances on maps. 6. . Distinguishing between regular and irregular shapes and how to calculate their areas 7. Understand the term "land leveling," its importance, how to adjust land, and the devices used for this purpose.
Indicative Contents المحتويات الإرشادية	

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم	
Strategies	In-person lectures for 14 weeks, including monthly exams, daily exams, and a scientific trip to one of the reclamation projects in the region.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	60	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	4
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	60	**Unstructured SWL (h/w)** الحمل الدراسي غير المنتظم للطالب أسبوعيا	4
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	60		

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

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

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Definition of survey, types of surveys, requirements for a good survey,
Week 2	Measurement systems, units of measurement, errors
Week 3	Tape scanning, station selection conditions, field book order
Week 4	Errors in the survey works, methods of treatment and overcome
Week 5	Drawing scale, types, determining factors
Week 6	Areas, regular and irregular shapes, survey in coordinates
Week 7	Leveling, its terminology, types of adjustment, uses of the level device
Week 8	Types of leveling, curvature and refraction phenomena and their treatment
Week 9	Methods for calculating point levels and elevation difference, direct and indirect
Week 10	Work of longitudinal sections, definition, central axis identification, set of points scale
Week 11	Calculation of point levels, distance scale, projection of the design and actual section
Week 12	Finding the excavation height and backfill depth, calculating the cutting and backfilling areas, calculating the cutting and
Week 13	Topographic maps, representation methods

Week 14	Contour lines, methods for finding space and interval, finding contour lines, properties of contour lines, methods for drawing contour lines
Week 15	Theodolite, its features, use, measurement of horizontal and vertical angles
Week 16	**Preparatory week before the final Exam**

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Lab 1: Identify the tools used in survey, characteristics, defects, settings
Week 2	Lab 2: Adjusting orientation in measurements, calculating flat and inclined distances, and correcting measurements.
Week 3	Lab 3: Methods of accommodation and projection. Clear field using tape
Week 4	Lab 4: Measure lengths and install stations. Methods of accommodation and projection. Beams and barriers.
Week 5	Lab 5: Draw a line map at a suitable scale
Week 6	Lab 6: Applications in drawing scale, longitudinal, and schematic. Selection methods
Week 7	Lab 7: Applications in calculating areas, practical examples. Squares and ellipses
Week 8	Applications in calculating the area of irregular shapes, mathematical methods, the Semsen method.
Week 9	Identify the pepper machine, its parts and accessories. Types of adjustment. Read the ruler.
Week10	Applications of direct methods for finding point levels in the field
Week 11	Finding levels using the rise and fall method and the device's height method
Week 12	Applications in longitudinal sector work, determining the main axis of the project, calculating a set of points on the project axis
Week 13	Drawing on graph paper and determining the size of excavation

Week 14	Applications in making a contour map, drawing it, determining the period, and drawing lines mathematically
Week 15	Follow up practical experience

Learning and Teaching Resources

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.

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	1- Flat space. Fawzi Al-Khalisi. College of Engineering - University of Basra. 2- Engineering and cadastral surveying. Ziad Abdul Jabbar Al-Bakr.	Yes

	Topographical surveying and geodesy. Muhammad Farid Youssef. Dar Al-Rateb University, Beirut. 4- Calculating areas and quantities. Hiyam Youssef. 1985.	
Recommended Texts		No
Websites		

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية				
Module Title	**Principle of Geology**		**Module Delivery**	
Module Type	**Core**		☒**Theory** ☒**Lecture** ☒**Lab** ☐**Tutorial** ☐**Practical** ☐**Seminar**	
Module Code	GEOL112			
ECTS Credits	**6**			
SWL (hr/sem)	**150**			
Module Level	1	**Semester of Delivery**	2	
Administering Department	Soil science and water Resources	**College**	College of Agriculture	
Module Leader	Hayfaa Jasim Hussein	**e-mail**	hayfaa.hussein@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	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	1. Understanding Earth Materials • Identify and describe the major types of rocks and minerals. • Understand the processes of rock formation and the rock cycle. 2. Geological Time and History • Explain the concept of geological time and methods for dating rocks. • Discuss the major events in Earth's history and the evolution of life. 3. Plate Tectonics
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	Knowledge and Understanding • Fundamental Concepts**: Understand the basic principles of geology, including the formation and structure of Earth, rock types, and geological processes.** • Earth Materials**: Identify and classify various minerals and rocks, understanding their properties and uses.** • Geological Time**: Grasp the concept of geological time and the methods used to date rocks and fossils.** Practical Skills • Fieldwork Techniques**: Develop skills in geological fieldwork, including mapping, sampling, and data collection.** • Laboratory Skills**: Gain experience in analyzing geological samples using various laboratory techniques.**

	• Data Interpretation**: Learn to interpret geological data and use it to make informed conclusions about Earth's processes.** Critical Thinking and Problem Solving • Analytical Skills**: Apply critical thinking to assess geological problems, including environmental and resource management issues.** • Research Skills**: Conduct independent research on a geological topic, demonstrating the ability to analyze and synthesize information.** Communication • Reporting Findings**: Communicate geological findings effectively through written reports and oral presentations.** • Collaboration**: Work collaboratively in groups to solve geological problems and present findings.**
Indicative Contents المحتويات الإرشادية	Indicative content includes the following. Introduction to geology - the concept of its origin and its branches. [SSWL=5 hrs] Geological phenomena and how they arise. [SSWL=5 hrs] Metals and their formation methods. [SSWL=15 hrs] Minerals and their formation methods. [SSWL=5 hrs] Weathering: its types and its relationship to soil formation Weathering: its types and its relationship to soil formation [SSWL=5 hrs] The cycle of rocks in nature, igneous rocks [SSWL=5 hrs] sedimentary rocks [SSWL=10 hrs] metamorphic rocks [SSWL=5 hrs] The water cycle: surface water [SSWL=5 hrs] Ground water [SSWL=15 hrs] Survey of Natural Resources [SSWL=5 hrs] The relationship of the geologist to soil and agriculture [SSWL=5 hrs] Applications in Geological Sciences [SSWL=5 hrs] Total hrs = 75 = SSWL - (Exam hrs) = 75 - 4 = 71 hr (Time table hrs x 15 weeks)

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم

Strategies	**1.** Hands-On Fieldwork • **Field Trips**: Organize excursions to geological sites for real-world observation and data collection. • **Rock and Mineral Identification**: Provide students with samples to practice identification and classification. **2.** Interactive Learning • **Model Building**: Use 3D models of geological formations to help visualize structures. • **Virtual Field Trips**: Utilize online resources and virtual reality to explore remote geological sites. **3.** Collaborative Projects • **Group Research**: Encourage students to work in teams on geological topics, promoting discussion and collaboration. • **Peer Teaching**: Allow students to present on specific geological concepts, reinforcing their understanding. **4.** Technology Integration • **Geographic Information Systems (GIS)**: Teach students how to use GIS software for mapping and analyzing geological data. • **Simulation Software**: Use simulations to demonstrate geological processes like erosion, sedimentation, and plate tectonics. **5.** Inquiry-Based Learning • **Problem-Solving Activities**: Present real-world geological problems for students to investigate and solve. • **Research Projects**: Have students conduct independent research on geological topics of interest.

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	75	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب أسبوعيا	5
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	74	**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	15% (10)	Continuous	All
	Report	1	5% (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 geology - the concept of its origin and its branches.
Week 2	Geological phenomena and how they arise.
Week 3	Metals and their formation methods.
Week 4	Minerals and their formation methods.
Week 5	Weathering: its types and its relationship to soil formation
Week 6	Weathering: its types and its relationship to soil formation

Week 7	The cycle of rocks in nature, igneous rocks
Week 8	sedimentary rocks
Week 9	Sedimentary rocks
Week 10	metamorphic rocks
Week 11	The water cycle: surface water
Week 12	Ground water
Week 13	Survey of Natural Resources
Week 14	The relationship of the geologist to soil and agriculture
Week 15	Applications in Geological Sciences
Week 16	**Preparatory week before the final Exam**

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	Relationship between geology and soil
Week 2	Their qualities and methods of manufacture types
Week 3	Their qualities and method classification rocks
Week 4	Conservation rocks their qualities
Week 5	Methods of classification minerals and natural
Week 6	Rocks in lraq minerals and natural rocks in lraq
Week 7	Minerals and natural rocks in Iraq field

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Required Texts	Ahmed Mustafa Al-Busaili, Muzaffar Muhammad Mahmoud, 1980, minerals and rocks, Dar Al-Hikma for printing and publishing - Mosul University.	Yes
Recommended Texts	Principles of Geology (Penguin Classics) Paperback Abridged, June 1, 1998	No
Websites	https://www.britannica.com/biography/Charles-Lyell/Scientific-eminence	

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**			**Module Delivery**	
Module Type	**Basic**			☒ **Theory** ☒**Lecture** ☒ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**CPMP101**				
ECTS Credits	**5**				
SWL (hr/sem)	**150**				
Module Level	1		**Semester of Delivery**	1	
Administering Department	**Soil and Water sciences**		**College**	**Agriculture**	
Module Leader	Name		**e-mail**	E-mail	
Module Leader's Acad. Title	Lecturer		**Module Leader's Qualification**	Msc.	
Module Tutor	L. Issam Mohammed Ali Abd Alkareem		**e-mail**	issam.abdalkareem@uobasrah.edu.iq	
Peer Reviewer Name	Name		**e-mail**	E-mail	
Scientific Committee Approval Date	2/09/2024		**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	1-The aim of this course is to Knowledge of computer hardware and software components and details about the computer and its protection. 2- In this course, the student will able to Learn the skills of using Word 2010 and get the practice application on the computer device. 3- In this course, the student in this course will able to Knowing the history of the emergence of the computer and the stages of its development. 4- The student may able to repair his device when he faces any problem in running Windows by acquiring the skills in this course. 5- The student may able to repair his device when he faces any problem in running Windows system by acquiring the skills in this course. 6- The student may able to learn the skills of writing and printing his graduation project or any future paper writing on his device without resorting to any external office and saving money. 7- it may able to learn the skills of dealing with virus and downloading the best anti-virus programs to protect his personal computer.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	1- Learn the life cycle of the computer, computer generations, types and computer advantages. 2- Knowledge of the system unit in the computer, memory units, storage and ports. 3- Learn software components, operating systems and application programs in the computer. 4- Learn electronic hacking, its types and sources, computer security and software licenses.

	5- Learn about the types of viruses that infect the computer, their components and characteristics. 6- Learn how to install Windows 10, installation requirements, system features and details. 7- Learn how to deal with the Internet, types of browsers, and operate Internet Explorer and its features. 8- Learn search engines, methods of searching the Internet, downloading files and e-mail and how to use it. 9- Learn about Word 2010, creating and saving a document, printing and writing in a Word document, and its details.
Indicative Contents المحتويات الإرشادية	<u>Part A: Theory</u> -A historical overview of the origin of the computer, its areas of use and types, the system unit, memory, storage and ports, software components, computer security and licenses, electronic hacking and its types and sources, viruses, their characteristics and components, and the harms of computers to health. [SSWL=10 hrs] -Windows 2010 operating system and its components, common settings. [SSWL=4hrs] - The Internet, its characteristics, disadvantages and benefits, its uses and advantages. [SSWL=4hrs] - Word 2010 and the tools and tabs that enable its use. [SSWL=12hrs] <u>part B: Lab</u> - Software components and application programs for computers and operating systems, antivirus programs and types of viruses and their components. [SSWL=9hrs] - How to run and install Windows 2010 and installation requirements, dealing with the desktop, taskbar, Start menu, files and icons, control panel and settings. [SSWL=9hrs] - The Internet and getting to know browsers, running Internet Explorer, links and search sites on the Internet, ways to download documents, e-mail and its attached tools, and receiving message notifications. [SSWL=9hrs] - Word 2010 program, entering, opening, creating, saving and closing a document, printing and writing on the document, using the home page tab tools, inserting and layout the page, reviewing, viewing and editing text. [SSWL=18hrs]

	Total hrs = 75 hrs (Time table hrs x 15 weeks)

Learning and Teaching Strategies استراتيجيات التعلم والتعليم	
Strategies	Enable students to recognize: 1- Enabling students to repair faults in the Windows 10 operating system and deal with it in order to complete the required tasks in the shortest time and with the least effort. 2- Enabling students to detect viruses and types of antivirus programs in order to protect their personal devices. 3- Enabling students to learn the experiences and skills in writing and printing any document in the near and distant future in terms of Microsoft office 2010. 4- Enabling students to acquire the skills of dealing with E-mail and understanding its features and searching and downloading any document.

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)	15	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)

المنهاج الاسبوعي النظري

	Material Covered
Week 1	General introduction to the computer - definition of the computer - phases of the computer life cycle - computer generations - computer advantages - areas of use - types of computers.
Week 2	System unit - memory, storage, and ports.
Week 3	Software components - types of software components - operating systems - application programs.
Week 4	Computer security and software licenses - Computer security and software licenses - Forms of transgressions in the digital world - Electronic hacking - its types and sources.

Week 5	Viruses - their characteristics, components and types - protection from electronic hacking - computer harm to health.
Week 6	Operating system/Windows 10 - installation requirements - the most important features of the system - operating system environment - window definition - window control - installation requirements.
Week 7	**Mid-term Exam**
Week 8	Desktop components - Start menu - Taskbar - Folders, files, and icons - Performing operations on windows - Control Panel - Common computer settings.
Week 9	The Internet - its characteristics, drawbacks and benefits - types of browsers - running Internet Explorer 10 and some of its features.
Week 10	Internet search links and websites- Google search program - Search methods and how to deal with some tags - Help in downloading files from the Internet - E-mail - Creating e-mail and how to use it.
Week 11	Introduction to the WORD 2010 program, how to enter the program, title of the main window, opening and creating the document, saving and closing it, printing and previewing before printing, writing in the document.
Week 12	Home page list: (Clipboard group, Font group, Paragraph group, Editing group, Styles group).
Week 13	Insert list: (Pages group, Table group, Apply formulas, Illustrations drawings group, Header and footer group, Text group, Symbols group).
Week 14	Page Layout tab: (Page Setup group, Page Background group, Paragraph group, Arrangement group), Review list: (Proofing group, Language group, Comments group), View list: (Document views group, Show group, Zoom in and out group).
Week 15	Page tips, creating a backup copy, file properties, using (Word 2010) to work with previous versions, the necessary keys used in editing text.

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered

Week 1	Lab 1: Practical application on software components, computer application programs, and operating systems.
Week 2	Lab 2: Practical application on antivirus programs and their types, types of viruses and their components.
Week 3	Lab 3: Practical application on how to run and install Windows 2010, control windows 10, and installation requirements.
Week 4	Lab 4: Practical application on the computer desktop and dealing with the taskbar, start menu, files, and icons.
Week 5	Lab 5: Practical application on the control panel and common settings on the computer for Windows 2010.
Week 6	Lab 6: Practical application on the Internet and getting to know browsers, and running Internet Explorer.
Week 7	Lab 7: Practical application on Internet search links and Websites, Google programs, search methods, and downloading documents.
Week 8	Lab 8: Practical application on E-mail and how to create and use e-mail, the features available in it, and how to receive message notifications.
Week 9	Lab 9: Practical application on Word 2010, and learning to enter the program, open, create, save, and close the document, and print and write in the document.
Week 10	Lab 10: Learn how to use the home tab tools and applications on them.
Week 11	Lab 11: Learn how to use the insert tools and applications on them.
Week12	Lab 12: Learn how to use the page layout tools and applications on them.
Week 13	Lab 13: Learn how to use the review tools and applications on them.
Week 14	Lab 14: Learn how to use the display tools, create backup copies of the document and the necessary keys used in editing text and applications on them.

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	**Available in the Library?**
Required Texts	1- Office 2010, Ihsan Al-Haisami, 2014, Computer Directorate, Education Office, Ibb, Yemen. 2- Windows 2010, Muhammad Abu Al-Ela, Egypt, 2016 3- Comprehensive learning about the Windows 2010 operating system, Wissam Ali Al-Khuzai, 2020, Iraq. 4-A Guide to Microsoft office 2010,Paradigm publishing , 2011. 5-microsoft office 2010 introduction,Gry Shelly,2010. 6-windows 10 Guidebook A tour into the future of computer, Jublo Limited. 2015 7-windows 10 the complete handbook on using windows 10, 2015,Andrew Rupert .	Yes
Recommended Texts	Microsoft Office 2010, Advanced (SAM 2010 Compatible Products), 2011, Sandra Cable and Connie Morrison .	
Websites	**https://edu.gcfglobal.org/en/windows10/** https://www.udemy.com/topic/windows-10/ **https://edu.gcfglobal.org/en/topics/office2010/**	

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

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

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية		
Module Title	**English language**	**Module Delivery**
Module Type	**Basic**	☒ **Theory**
Module Code	**UOB102**	

ECTS Credits	**2**	☐**Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**
SWL (hr/sem)	**50**	

Module Level	1	**Semester of Delivery**	**One**
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	Dr. Hassan Nima Habib	**e-mail**	hassan.nima@uobasrah.edu.iq
Peer Reviewer Name	Name	**e-mail**	E-mail
Scientific Committee Approval Date	31/08/2024	**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 أهداف المادة الدراسية	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. 2-This course will focus on grammar rules, basic word knowledge and

	usage, reading comprehension, reading out of the lesson, and Paragraph writing. 3- A student may be able to listen to native speakers and speak English Language. 4- A student may be able to write and have creativity in his writing.
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	.1 - Uses expressions of Quantity in elementary level of English. 2- Constructs sentences in Present Perfect Tense, Simple Future Tense and Going to Future Tense both in an oral and written task. 3- Defines basic Modals and employ them in elementary level of communication and writing skills. 4- Translates sentences in elementary level from English to another language. 5- Interprets the texts written in elementary level of English.
Indicative Contents المحتويات الإرشادية	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). Spoken and written language are composed of receptive (i.e., listening and reading) and expressive (i.e., speaking and writing) components. 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 Phonology study of the speech sound (i.e., phoneme) system of a language, including the rules for combining and using phonemes. Morphology study of the rules that govern how morphemes, the minimal meaningful units of language, are used in a language. Syntax the rules that pertain to the ways in which words can be combined to form sentences in a language. Semantics the meaning of words and combinations of words in a language.

Learning and Teaching Strategies

استراتيجيات التعلم والتعليم	
Strategies	Enable students to recognize: 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

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	Structure of English sentence
Week 2	Present simple tense.
Week 3	Past simple tense.
Week 4	Present and past continuous tenses
Week 5	Future tense
Week 6	Possessive Adjectives
Week 7	Pronoun personal
Week 8	Preposition.
Week 9	Intransitive and transitive verbs
Week 10	Adverbs forms
Week 11	Performative verbs

Week 12	Possessive
Week 13	The plural of nouns and A singular noun
Week 14	The adjectives
Week 15	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**			☒ **Theory** ☐ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**UOB104**				
ECTS Credits	**2**				
SWL (hr/sem)	**50**				
Module Level	1		**Semester of Delivery**	**One**	
Administering Department	**Animal Production**		**College**	**Agriculture**	
Module Leader	Name		**e-mail**	E-mail	
Module Leader's Acad. Title	Assist. Prof.		**Module Leader's Qualification**	M.SC.	
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	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
	Midterm Exam	2hr	10% (10)	7	LO #1 - #7

Summative assessment	**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	**Mathematics**			**Module Delivery**	
Module Type	**Basic**			☒ **Theory** ☐ **Lecture** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**STAT124**				
ECTS Credits	**5**				
SWL (hr/sem)	**125**				
Module Level	1		**Semester of Delivery**	**One**	
Administering Department	Type Dept. Code		**College**	Type College Code	
Module Leader	Name		**e-mail**	E-mail	
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	1/09/2024		**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	48	**Structured SWL (h/w)** الحمل الدراسي المنتظم للطالب 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	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

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	**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**	**Two**	
Administering Department	Animal production		**College**	Agriculture	
Module Leader	Name		**e-mail**	E-mail	
Module Leader's Acad. Title	Assist. Prof.		**Module Leader's Qualification**	M.Sc.	
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	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	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	**Soil Principles**			**Module Delivery**	
Module Type	**Core**			☒ **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	Plant protection		**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	6
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 (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	**Organic Chemistry**			**Module Delivery**	
Module Type	**Basic**			☒ **Theory** ☐**Lecture** ☒ **Lab** ☐ **Tutorial** ☐**Practical** ☐**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	Name		**e-mail**	E-mail	
Module Leader's Acad. Title	Assist. Prof.		**Module Leader's Qualification**	M.Sc.	
Module Tutor	Maryam Abdulbari Oraibi		**e-mail**	mariam.ouraiby@uobasrah.edu.iq	
Peer Reviewer Name	Name		**e-mail**	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	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 مخرجات التعلم للمادة الدراسية	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
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.

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	An overview of organic
Week 2	chemistry and the classes of
Week 3	organic chemistry
Week 4	Alkanes
Week 5	Alkenes
Week 6	Alkynes
Week 7	Exame
Week 8	Assignment 1
Week 9	aromatic hydrocarbons
Week 10	Alkyl and alcohol halides
Week 11	Phenols and ethers
Week 12	Aldehydes and ketones
Week 13	carboxylic acids
Week 14	Amines

Week 15	Exame

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي 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
Week8	Lab8: Detection of alcohols and phenols
Week9	Lab9: 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

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			**Semester of Delivery**	two	
Administering Department	Animal production		**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			**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 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 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

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	7
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
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