Course Description For the Academic Year 2024-2025

Sample course description

Module Information Course Information					
Module Title	**Organic Chemistry**			**Module Delivery**	
Module Type	Basic			☐ **Theory** ☒ **Reading** ☐**Lab** ☐ **Tutorial** ☒**Practical** ☐ **Seminar**	
Module Code	USAGFi1101				
ECTS Credits	**5**				
SWL (hr/sem)	**125**				
Module Level	1		**Semester of Delivery**	1	
Administering Department	Field Crops Section		**College**	Faculty of Agriculture	
Module Leader	Name:Mohammed Hameed Mahal		**Email**	mhmaa84@gmail.com	
Module Leader's Acad. Title	Assistant Professor Doctor		**Module Leader's Qualification**	Ph.D.	
Module Tutor			**Email**		
Peer Reviewer Name	Bilal Saad Mutlak		**Email**	Bilal.saad.m@uosamarra.edu.iq	
Scientific Committee Approval Date	2024/10/20		**Version Number**	33	

Relation with other Modules Relationship with other subjects			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents

Course Objectives, Learning Outcomes, and Instructional Contents	
Module Objectives **Course Objectives**	1. The importance of studying organic chemistry lies in the fact that it is an influential and major factor in our lives, as it is concerned with the study of all living organisms and affects them, so we will explain this importance below: There is no scientific field that is related to our daily activities and changes in our bodies as organic chemistry is related 2. Organic chemistry is one of the branches of chemistry. It studies the structure, properties, and reactions of compounds and organic materials, i.e. materials containing the element carbon. It is concerned with the reactions and substances involved in the formation of living organisms or resulting from an organism, which is why it is called organic. 3. Most of the substances used in daily life are classified as organic substances, so the importance of organic chemistry appears in several areas of daily life. (NH2-CH-proteins (CHO), Whole food is made up of carbon, carbohydrates .4 as well as vitamins that are organic in nature (CH-COO-CH) fatsCOOH),
Module Learning Outcomes **Learning Outcomes for the Course**	1. Knowledge of the basics of physical and chemical properties of matter, and explain the theoretical principles and important applications of classical analytical methods 2. Classification and giving of organic compound nomenclature and detailed explanation of the qualitative and quantitative aspects of organic compounds The student will be able to explain why chemistry is an essential activity to .3 address economic and environmental problems
Indicative Contents **How-to Contents**	In this second part it is designed to provide a basic overview of organic chemistry for a student interested in pursuing a career in science. It ,focuses primarily on the basic principles of understanding the structure properties, composition and preparation (by synthesis or other means) of carbon- hydrocarbon-based compounds and their derivatives. These compounds may contain any number of other elements, including ,hydrogen, nitrogen, oxygen, and halogens as well as phosphorus, silicon sulfur, and the reaction of organic molecules. The focus is on the reactions .of substitution and removal and the chemistry of the alkyl group

Learning and Teaching Strategies Learning and Teaching Strategies	
Strategies	The study of organic materials involves the use of spectroscopy (e.g., nuclear magnetic resonance), mass spectroscopy, and other physical and chemical methods to determine the chemical composition and chemical formula of organic compounds and understand ,food their reactions, and even to add materials that are useful to humans, such as fertilizers, and various polymers sometimes used as electrical insulators , medicines

Student Workload (SWL)			
The student's academic load is calculated for 15 weeks			
Structured SWL (h/sem) Student's regular academic load during the semester	80	**Structured SWL (h/w)** Regular Academic Load of the Student Weekly	5
Unstructured SWL (h/sem) Student's irregular academic load during class	45	**Unstructured SWL (h/w)** Student's irregular academic load per week	3
Total SWL (h/sem) The student's total academic load during the semester	**125**		

Module Evaluation					
Assessment of the course					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	4	10%	Continuous throughout the class	
	Assignments	3	10%	Continuous throughout the class	
	Projects / Lab.	15	10%	Continuous throughout the class	
	Report	1	10%	Continuous throughout the class	
Summative assessment	**Midterm Exam**	2	10%	8,14	
	Final Exam	1	50%	16	
Total assessment			100% (100)		

Delivery Plan (Weekly Syllabus)
Theoretical Weekly Curriculum

	Material Covered
Week 1	Bonding in Chemical Compounds
Week 2	Interpretation of Molecular Orbital Covalent Bonding
Week 3	Aliphatic hydrocarbons
Week 4	Preparation of the cans
Week 5	Ring alkanes
Week 6	Methods of Preparing Ring Canes
Week 7	Alkenes
Week 8	Alkene reactions
Week 9	Creditors
Week 10	Organisms
Week 11	Aromatic hydrocarbons
Week 12	Erinat
Week 13	Alkyl halides
Week 14	Alkyl halide reactions

Delivery Plan (Weekly Lab. Syllabus) Weekly Laboratory Curriculum	
	Material Covered
Week 1	Devices and instruments used in organic chemistry laboratories
Week 2	The first experiment is measuring the melting point of the melting point
Week 3	The second experiment is measuring boiling point
Week 4	The third experiment is the sublimation process
Week 5	The Fourth Experiment Distillation Process and its Types
Week 6	:The Sixth Experiment Recrystallization
Week 7	Experiment Seven: Simple Filtration and Vacuum Filtration Simple Filter, Vacuum Filter
Week 8	Experiment Eight Extraction
Week 9	Extracting Caffeine from Tea
Week 10	Experiment Ten: Preparation of Methane Gas
Week 11	Experiment Eleven: Preparation of Acetylene Gas
Week 12	Preparation of Nitrobenzene
Week 13	Methods of diagnosing organic compounds
Week 14	Final Report

Week 15	Practical Exam

Learning and Teaching Resources		
Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	Organic Chemistry Dr. Mohammad Nizar	
Recommended Texts	Fundamentals of Organic Chemistry Spill	No
Websites	Organic Chemistry Reactions Websites	

Grading Scheme				
Grading Chart				
Group	**Grade**	Recognition	**Marks %**	**Definition**
Success Group (50 - 100)	**A** - Excellent	Privilege	90 - 100	Outstanding Performance
	B - Very Good	Very good	80 - 89	Above average with some errors
	C - Good	Good	70 - 79	Sound work with notable errors
	D - Satisfactory	Medium	60 - 69	Fair but with major shortcomings
	E - Sufficient	Acceptable	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	Deposit (in (processing	(45-49)	More work required but credit awarded
	F – Fail	Fail	(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

Sample course description

Module Information		
Course Information		
Module Title	**General Plant**	**Module Delivery**
Module Type	Core	☐**Theory**

Module Code	USAGFI1103		☒ **Reading** ☐ **Lab** ☐ **Tutorial** ☒ **Practical** ☐ **Seminar**		
ECTS Credits	7				
SWL (hr/sem)	175				
Module Level	1		**Semester of Delivery**	1	
Administering Department	2903Z100G003		**College**	TyPe Collge code	
Module Leader	M.Dr. Mona Ayed Youssef		**Email**	muna.a.y@uosamarra.edu.iq	
Module Leader's Acad. Title	Lecturer Doctor		**Module Leader's Qualification**	PhD	
Module Tutor			**Email**		
Peer Reviewer Name	Tulane Khalid Ibrahim		**Email**	toleen.k@uosamarra.edu.iq	
Scientific Committee Approval Date	2024/10/20		**Version Number**	33	

Relation with other Modules

Relationship with other subjects

Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents

Course Objectives, Learning Outcomes, and Instructional Contents

Module Objectives **Course Objectives**	1. Introduce the student to botany, its importance and branches 2- Identify the plant cell and its parts 3. Distinguish between the types of plant cell division 4. Distinguish between plant tissue types Identify the parts of the plant and the importance of each part -5
Module Learning Outcomes	1- Identify the principles of different plant sciences: genetics, physiology, ecology, morphology, taxonomy, etc. 2- Identify the living and non-living contents of the cell, and the process of cell division.

Learning Outcomes for the Course	3- Knowing the difference between plant tissue types, their importance and function in plants 4- Students are able to diagnose the types of roots and stems, and what is the difference between them. 5- Know the types of leaves, their sweating, and how to arrange them on the stem 6- Knowing the main parts of the flower and the types of pollination Distinguish between the types of fruits and seeds -7
Indicative Contents How-to Contents	1.

Learning and Teaching Strategies Learning and Teaching Strategies	
Strategies	The lecturing, discussion, brainstorming, and collaborative learning strategy will be adopted in the delivery of this material and encourage students' participation in the lab, while at the same time improving and expanding their critical thinking skills. This will be achieved through classrooms, interactive lessons, and by looking at the types of simple experiments involving some sampling activities that interest students.

Student Workload (SWL) The student's academic load is calculated for 15 weeks			
Structured SWL (h/sem) Student's regular academic load during the semester	80	**Structured SWL (h/w)** Regular Academic Load of the Student Weekly	3
Unstructured SWL (h/sem) Student's irregular academic load during class	95	**Unstructured SWL (h/w)** Student's irregular academic load per week	2
Total SWL (h/sem) The student's total academic load during the semester	**175**		

Module Evaluation Assessment of the course					
		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	Everyone
	Report	1	10% (10)	13	LO #8, #9 and #12
Summative assessment	**Midterm Exam**	1	10% (10)	7	LO #1 - #7
	Final Exam	1	50% (50)	16	Everyone
Total assessment			100% (100)		

Delivery Plan (Weekly Syllabus)	
Theoretical Weekly Curriculum	
	Material Covered
Week 1	Definition, Importance and Branches of Botany
Week 2	Plant cell
Week 3	Cell division
Week 4	Definition of plant tissues and their types
Week 5	Structural Tissue
Week 6	Types of permanent tissues
Week 7	Composite tissues
Week 8	Root and its types
Week 9	Leg and its types
Week 10	Division of stems by function and difference between stem and root
Week 11	Leaf Composition , Types and Leaf Arrangement on the Stem
Week 12	Flower Parts
Week 13	Types of Insemination
Week 14	Composition of fruits and varieties
Week 15	Seed and Composition
Week 16	
Week 17	
Week 18	
Week 19	
Week 20	
Week 21	
Week 22	
Week 23	
Week 24	
Week 25	
Week 26	
Week 27	
Week 28	

Delivery Plan (Weekly Lab. Syllabus) Weekly Laboratory Curriculum	
	Material Covered
Week 1	Familiarity with laboratory instruments
Week 2	Live and non-living contents of the cell
Week 3	Direct and indirect cell division
Week 4	Permanent tissue , parenchymal tissue anatomy
Week 5	Difference Between Mermaids and Permanent Tissues
Week 6	Essential tissues
Week 7	Vascular tissues and vascular bundles and their types
Week 8	Anatomy of the root and its internal structure
Week 9	Leg - and Leg Morphology
Week 10	Anatomy of the leg and its internal structure
Week 11	Anatomy of a paper
Week 12	Simple Papers, Compound Papers
Week 13	Anatomy of the parts of the flower
Week 14	Anatomy of the fruit
Week 15	Seed Anatomy

Learning and Teaching Resources Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	Mujahid, Ahmed Mohammad. (1992). Anglo-Egyptian Library. Cairo. General Plant	No
Recommended Texts	. Ministry of Agriculture. Department of Agricultural Education. Egypt(2021) Agricultural Botany Book. Written by John Percival.(Hassan, Abbas, Tawfiq Abu Tira and Bayoumi Al-Dara. (2021). Concepts on Botany Arab Press Agency ..	No
Websites	https://bookapa.com/e-books/-7102.html	

Grading Scheme Grading Chart

Group	Grade	Recognition	Marks %	Definition
Success Group (50 - 100)	**A** - Excellent	Privilege	90 - 100	Outstanding Performance
	B - Very Good	Very good	80 - 89	Above average with some errors
	C - Good	Good	70 - 79	Sound work with notable errors
	D - Satisfactory	Medium	60 - 69	Fair but with major shortcomings
	E - Sufficient	Acceptable	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	Deposit (in (processing	(45-49)	More work required but credit awarded
	F – Fail	Fail	(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

Sample course description

Module Information			
Course Information			
Module Title	Computer	**Module Delivery**	
Module Type	**Basic**	☐**Theory** ☒ **Reading** ☐**Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**USAGFi1131**		
ECTS Credits	3		
SWL (hr/sem)	75		
Module Level	1	**Semester of Delivery**	1
Administering Department	2903Z100G003	**College**	Type College Code
Module Leader	Abdul Munem Hasan Ahmed	**Email**	moneim.h14@uosamarra.edu.iq
Module Leader's Acad. Title	Assistant professor	**Module Leader's Qualification**	Ph.D
Module Tutor		**Email**	Email
Peer Reviewer Name	Name	**Email**	Email

Scientific Committee Approval Date	2024/10/20	**Version Number**	33

Relation with other Modules Relationship with other subjects			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents Course Objectives, Learning Outcomes, and Instructional Contents	
Module Objectives **Course Objectives**	**The main objective of computer science is:** 1. Identify the concepts of computers , programs and their components. 2- Identify the computer parts and input and output units in the computer. 3. Identify memory types, core CPU components, and computer ports. 4. Recognize and GUI: Operating System; Fundamentals of Common Operating Systems. 5. Familiarize yourself with word processing software: basics of word processing, opening and closing documents: (text creation and processing; text formatting; table handling: spell checking). 6. Familiarize yourself with the presentation software: the basics of presentation software ; create presentations; prepare and present slides: slide show. 7. Understanding the Internet, Web Browsers: Fundamentals of Computer Networking, LAN andWAN Networks, Internet Concept and Applications, Internet Connection. 8. Identify communications and email: (Email Basics; Get an email account; send and receive emails). Computer Troubleshooting: Identify and resolve common hardware and -9 .software issues faced by computer users

Module Learning Outcomes **Learning Outcomes for the Course**	1- Understanding the basics of computers: The student's ability to identify computer components and basic operating systems. 2- Proficiency in the use of office software such as (PowerPoint, Excel, word) Microsoft Office 3- Ability to collect, organize, and analyze data using computer tools. 4- Use online communication and collaboration tools effectively. 5- Ability to self-learn and acquire new skills in the field of information technology. .Following the latest developments in computer technology -6
Indicative Contents **How-to Contents**	How-to content includes: 1. Understand theconcepts of computers , software and their components. .web browsers, and the basics of computer networks ,Understand the Internet .2

Learning and Teaching Strategies Learning and Teaching Strategies	
Strategies	1- Active learning in the computer subject is an educational method based on the active participation of students in the educational process so that the student is the center of the educational process . 2- Self-paced learning in the computer subject: It is the provision of various educational resources such as e-lessons and books to motivate students to explore the content on their own. 3- Developing academic education according to quality standards in higher education, which enables colleges and universities to produce outputs that are capable of production and excellence in the labor market . Teaching the student practical applications and developing thinking skills to solve - 4 .emerging problems

Student Workload (SWL) The student's academic load is calculated for 15 weeks			
Structured SWL (h/sem) Student's regular academic load during the semester	48	**Structured SWL (h/w)** Regular Academic Load of the Student Weekly	3
Unstructured SWL (h/sem) Student's irregular academic load during class	27	**Unstructured SWL (h/w)** Student's irregular academic load per week	1
Total SWL (h/sem) The student's total academic load during the semester	**75**		

Module Evaluation

Assessment of the course

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	4	10%	Continuous throughout the class	
	Assignments	2	10%	5,10	
	Projects / Lab.	15	10%	Continuous throughout the class	
	Report	2	10 %	4,11	
Summative assessment	Midterm Exam	2	10%	7,13	
	Final Exam	1	50%	16	
Total assessment			100% (100)		

Delivery Plan (Weekly Syllabus)

Theoretical Weekly Curriculum

	Material Covered
Week 1	Introduction to Computer
Week 2	Computer Parts (Input Units, Output Units, Memory Types)
Week 3	CPU, PC Ports, PC (Features & Types)
Week 4	Operating System (GUI: Operating System, Common Operating System Basics; User Interface, Use .(of Mouse Technologies: Use of Common Icons
Week 5	Use of Mouse Techniques: Use Common Icons, Status Bar, Use Menu and Menu Selection, Concept .of Folders and Directories, Open and Close Different Windows: Create Shortcuts
Week 6	Word processing: Word processing basics; opening and closing documents: text creation and ;processing
Week 7	a Word Text formatting; table handling: spelling, language and synonyms preparation; printing document.
Week 8	,Spreadsheet: Spreadsheet Basics, Cell Manipulation, Formulas and Functions
Week 9	.Edit spreadsheet, print spreadsheet
Week 10	;Presentation software: Presentation software basics
Week 11	Prepare and present slides: Slide show, take hard copies of presentations/printouts
Week 12	LAN ;Introduction to the Internet and Web Browsers: Fundamentals of Computer Networking Internet Concept and Applications, Internet Connectivity, World Wide Web; Web ;WANand .Address Domain Name: IP :URL Browsers. Search Engines: Understand
Week 13	Communications and email: Email basics; get an email account; send and receive emails; access sent .emails; use emails; collaborate on documents

Week 14	Computer troubleshooting: Identify and troubleshoot common hardware and software issues directed .by computer users. Basic troubleshooting techniques and tools for diagnosing and resolving problems
Week 15	End of course exam

Delivery Plan (Weekly Lab. Syllabus) Weekly Laboratory Curriculum	
	Material Covered
Week 1	Display of computer parts (inputs, outputs, memory types)
Week 2	View memory types
Week 3	CPU display, computer ports
Week 4	GUI Training: For Operating System
Week 5	Mouse Technique Training
Week 6	Practice using the menu, choosing the menu , the concept of folders, opening and closing different .windows
Week 7	Word Processing Software Training: Word Processing Basics; Opening and Closing Documents: Text .Creation and Processing
Week 8	Table Handling Training: Spell Checking, Language and Synonyms Preparation; and Word Document ..Printing
Week 9	.Spreadsheet training: Spreadsheet basics, cell handling; formulas and functions
Week 10	.Spreadsheet editing training , spreadsheet printing
Week 11	;Presentation Software Training: Fundamentals of Presentation Software
Week 12	.Slide preparation and presentation training: Slide presentation, hard copies of presentations/printouts
Week 13	,Web Browser Training: Fundamentals of Computer Networking, Internet Concept and Applications .Internet Connectivity, World Wide Web, Web Browsers. Search engines
Week 14	Communication and email training: Email basics; Obtaining an email account; sending and receiving .emails
Week 15	Computer troubleshooting training: Identify and resolve common hardware and software issues .directed by computer users

Learning and Teaching Resources Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	Methodology: Fundamentals of Computers and Office Applications a.M.Dr.Ziad Mohamed Abboud A.Dr.Ghassan Hamid Abd El , Majid a.M.Dr.Amir Hassan Murad	
Recommended Texts	Fundamentals of Computer Systems: A Comprehensive Guide to Computer Systems and Applications by Roseline Paul (Author)	No

Websites	https://icdlarabia.org/Ar/modules-computer-essentials

Grading Scheme Grading Chart				
Group	**Grade**	Recognition	**Marks %**	**Definition**
Success Group (50 - 100)	**A** - Excellent	Privilege	90 - 100	Outstanding Performance
	B - Very Good	Very good	80 - 89	Above average with some errors
	C - Good	Good	70 - 79	Sound work with notable errors
	D - Satisfactory	Medium	60 - 69	Fair but with major shortcomings
	E - Sufficient	Acceptable	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	Deposit (in (processing	(45-49)	More work required but credit awarded
	F – Fail	Fail	(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

Sample course description

Module Information Course Information				
Module Title	Mathimatics		**Module Delivery**	
Module Type	S Supportive		☐**Theory** ☒**Reading** ☐**Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**USAGFi1105**			
ECTS Credits	5			
SWL (hr/sem)	125			
Module Level	1		**Semester of Delivery**	1
Administering Department			**College**	Type collge code
Module Leader	Prof. Dr. Khaled Abdullah Sahr		**Email**	Khalid.a.s@uosamarra.edu.iq

Module Leader's Acad. Title	Professor Doctor	**Module Leader's Qualification**	PhD
Module Tutor		**Email**	
Peer Reviewer Name		**Email**	
Scientific Committee Approval Date	2024/10/20	**Version Number**	33

Relation with other Modules			
Relationship with other subjects			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
Course Objectives, Learning Outcomes, and Instructional Contents	
Module Objectives **Course Objectives**	Introduce the student to the general foundations of mathematics, including matrices, functions, derivatives, etc., and their applications in the agricultural field.
Module Learning Outcomes **Learning Outcomes for the Course**	1- Making the student able to recognize matrices - the concept of matrices 2- Some types of matrices - operations on matrices 3- Making the student able to recognize the determinants – calculating the determinant for the matrix -properties 3x3 and the matrix 2x2 4- Make the student able to identify Kramer's method of finding the solution of the system of linear equations 5- Making the student able to deal with periods, types of periods, functions, determining the corresponding and graph of the field and scope for some functions. 6- Making the student able to recognize the displacement of the graph of functions – applications to the linear function 7. Make the student able to deal with the derivation of functions. 8. Making the student able to recognize the integration – the concept of integration – 9. Make the student able to identify applications on integration - calculating the area under the curve - calculating the area between two curves 10. Make the student able to recognize trigonometric functions - derivation of functions 11. Make the student able to recognize the integral calculus of trigonometric functions 12. Make the student able to recognize the logarithmic function - the properties of the function - Logarithmic - Derivation of the logarithmic function
Indicative Contents	1. Make the student able to learn how to calculate the integration of a logarithmic function. Applications to the logarithmic function.

How-to Contents	2. Making the student able to recognize the exponential function, the properties of the exponential function, the derivation of the exponential function, the integration of the exponential function. 3. Make the student able to identify inverse trigonometric functions, the concept of inverse functions, and the derivation of inverse functions. 4. Make the student able to recognize how to calculate the integration of inverse functions

Learning and Teaching Strategies Learning and Teaching Strategies	
Strategies	To make the learner able to solve the problems of matrices, derivatives, exponential functions, linear, trigonogram, logarithmic, and integration calculations in agricultural applications

Student Workload (SWL) The student's academic load is calculated for 15 weeks			
Structured SWL (h/sem) Student's regular academic load during the semester	48	**Structured SWL (h/w)** Regular Academic Load of the Student Weekly	3
Unstructured SWL (h/sem) Student's irregular academic load during class	77	**Unstructured SWL (h/w)** Student's irregular academic load per week	5
Total SWL (h/sem) The student's total academic load during the semester	**125**		

Module Evaluation

Assessment of the course

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	5	10%	Continuous throughout the class	
	Assignments	5	10%	Continuous throughout the class	

	Projects / Lab.	2	10%	5,9	
	Report	1	10%	13	
Summative assessment	**Midterm Exam**	1	10%	10	
	Final Exam	1	50%	16	
Total assessment			100% (100)		

Delivery Plan (Weekly Syllabus) Theoretical Weekly Curriculum	
	Material Covered
Week 1	Matrices - The concept of matrices - Some types of matrices - Operations on matrices
Week 2	.x3delimiters – Calculate the delimiter for a matrix - Properties of delimiters3x22
Week 3	Kramer's method of finding the solution of the system of linear equations
Week 4	Periods - Types of periods - Functions - Define the domain, the corresponding domain and .the graph of some functions
Week 5	Function Graph Displacement – Applications to the Linear Function. .Calculating the integration of inverse functions
Week 6	.Derivation - The concept of derivation - the derivative laws of functions
Week 7	Integration – The Concept of Integration – General Forms of Integration
Week 8	Applications on Integration - Calculating the Area Under the Curve - Calculating the Area Between Two Curves
Week 9	.Trigonometric Functions- The derivation of trigonometric functions
Week 10	.Integrity Calculation of Trigonometric Functions - Applications to Trigonometric Functions
Week 11	Logarithmic Function - Properties of Logarithmic Function - Derivation of Logarithmic - Function
Week 12	Calculation of the integration of a logarithmic function. Applications to the logarithmic .function .
Week 13	Exponential Function Properties of an Exponential Function - Derivation of an Exponential Function - Integration of an Exponential Function
Week 14	Inverse Trigonometric Functions – The Concept of Inverse Functions – The Derivation of .Inverse Functions
Week 15	Calculating integration for inverse functions
Week 16	

Week 17	
Week 18	
Week 19	
Week 20	
Week 21	
Week 22	
Week 23	
Week 24	
Week 25	
Week 26	
Week 27	
Week 28	

Delivery Plan (Weekly Lab. Syllabus) Weekly Laboratory Curriculum	
	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	
Week 8	
Week 9	
Week 10	
Week 11	
Week 12	
Week 13	
Week 14	
Week 15	

Learning and Teaching Resources Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	Thomas - Calculus	
Recommended Texts		No

Websites	

Grading Scheme Grading Chart				
Group	**Grade**	Recognition	**Marks %**	**Definition**
Success Group (50 - 100)	**A** - Excellent	Privilege	90 - 100	Outstanding Performance
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	F – Fail	Fail	(0-44)	Considerable amount of work required

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MODULE DESCRIPTION FORM

Sample course description

Module Information Course Information					
Module Title	**Engineering Drawing**			**Module Delivery**	
Module Type	BASIC			☐ **Theory** ☐ **Reading** ☐ **Lab** ☐ **Tutorial** ☒**Practical** ☐ **Seminar**	
Module Code	USAGFi1107				
ECTS Credits	3				
SWL (hr/sem)	75				
Module Level		**1**	**Semester of Delivery**		**1**
Administering Department		**2903Z100G003**	**College**	**Type College code**	
Module Leader	**Qais Abd El , Amir Mahdi**		**Email**	**50007@uotechnology.edu.iq**	

Module Leader's Acad. Title	**Assistant Professor**	**Module Leader's Qualification**	**PhD**
Module Tutor		**Email**	
Peer Reviewer Name		**Email**	
Scientific Committee Approval Date	2024/10/20	**Version Number**	33

Relation with other Modules			
Relationship with other subjects			
Prerequisite module	**None**	**Semester**	
Co-requisites module	**None**	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
Course Objectives, Learning Outcomes, and Instructional Contents	
Module Objectives **Course Objectives**	**1. Expanding the mental ability to imagine geometric shapes.** **2. Adjust the practical aspects of the course through laboratory sessions.** **3. Introduce students to engineering designs and their importance in manufacturing products.** **4. Introduce students to the basics of engineering drawing.** **5. To enable students to understand the elements of three-dimensional visualization.** **6. Introduce students to technical drawing techniques so that design ideas can be communicated and produced.** **7. Introduce students to industry-related visual and written standard requirements.** **8. To understand and interpret any form of geometric drawings.** **.To draw an object from different perspective perspectives .9**
Module Learning Outcomes **Learning Outcomes for the Course**	**1. Ability to read and analyze design maps.** **2. The ability to represent engineering designs and convey them into reality.** **3. Students should be able to understand the description of any design.**

	4. Learn and learn about common drawing symbols. 5. Identify the development of basic engineering models. 6. Students will be able to produce business drawings according to industry requirements. 7. Students will be able to draw the required scenery for assembly drawings that illustrate all the details. 8. Students will be able to apply the principles of art drawing to a variety of engineering applications.
Indicative Contents **How-to Contents**	**How-to content includes:** **Part A –** **Introduction to Graphic Styles** **Fonts, calligraphy, types of papers, and tools** **Part B –** **Drawing Techniques** **Drawing Sheets, Hand Drawing, Drawing with Tools** **Part C –** **Engineering Operations and Drawing Applications** **Part D.** **Projection Techniques and Spell Projection Applications**

Learning and Teaching Strategies Learning and Teaching Strategies	
Strategies	1. Prompt and accurate decision-making. 2. Provide a detailed explanation in the chapter on the topic. 3. Provide sufficient illustration on the board with the help of a projector. 4. Make lecture periods interactive and integrate them into practical work. 5. Educational websites. 6. Give students class work during the lecture period 7. Giving homework at the end of each lecture.

Student Workload (SWL) The student's academic load is calculated for 15 weeks			
Structured SWL (h/sem)	**45**	Structured SWL (h/w) Regular Academic Load of the Student Weekly	**3**

Student's regular academic load during the semester			
Unstructured SWL (h/sem) Student's irregular academic load during class	**30**	Unstructured SWL (h/w) Student's irregular academic load per week	**2**
Total SWL (h/sem) The student's total academic load during the semester	**75**		

Module Evaluation

Assessment of the course

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	2	**10%**	5,10	
	Assignments	5	**10%**	3,5,7,9,13	
	Projects / Lab.	3	**10%**	6,8,11	
	Report	1	**10%**	14	
Summative assessment	**Midterm Exam**	1	**10%**	Continuous throughout the class	
	Final Exam	1	**50%**		
Total assessment			**100% (100)**		

Delivery Plan (Weekly Syllabus)

Theoretical Weekly Curriculum

	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	
Week 8	

Week 9	
Week 10	
Week 11	
Week 12	
Week 13	
Week 14	
Week 15	

Delivery Plan (Weekly Lab. Syllabus) Weekly Laboratory Curriculum	
	Material Covered
Week 1	Introduction to Engineering Drawing and Tools to be Available
Week 2	Types of calligraphy, geometric shapes and their features
Week 3	Configuring the drawing board, how to get started with a geometric drawing
Week 4	Engineering Operations -1
Week 5	Engineering Operations-2
Week 6	Engineering Operations-3
Week 7	Comprehensive Exercises for Engineering Operations
Week 8	Projection theory
Week 9	Projections - 1
Week 10	Projections - 2
Week 11	Dimensions
Week 12	Additional exercises
Week 13	Holographic
Week 14	Cut Projections -1
Week 15	Cut Projections -2

Learning and Teaching Resources Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	The geometric drawing of the author Abdul Rasool Al-Khafaf	yes
Recommended Texts	Engineering Drawing by M. B. Shah, B. C. Rana	No

Websites	https://www.gcect.ac.in/download/assignment/Engineering-Drawing.pdf

Grading Scheme Grading Chart				
Group	**Grade**	Recognition	**Marks %**	**Definition**
Success Group (50 - 100)	**A** - Excellent	Privilege	90 - 100	Outstanding Performance
	B - Very Good	Very good	80 - 89	Above average with some errors
	C - Good	Good	70 - 79	Sound work with notable errors
	D - Satisfactory	Medium	60 - 69	Fair but with major shortcomings
	E - Sufficient	Acceptable	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	Deposit (in (processing	(45-49)	More work required but credit awarded
	F – Fail	Fail	(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

Sample course description

Module Information Course Information			
Module Title	Soil principles	**Module Delivery**	
Module Type	**support**		☒ **Theory** ☐ **Reading** ☒ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**
Module Code	USAG1106		
ECTS Credits	7		
SWL (hr/sem)	175		

Module Level	1	**Semester of Delivery**	1
Administering Department	2903Z100G003	**College**	Type College Code
Module Leader	Ghasan Zad Mreef	**Email**	ghasan.zaid.m@uosamarra.edu.iq
Module Leader's Acad. Title	teacher	**Module Leader's Qualification**	M

Module Tutor		**Email**	Email
Peer Reviewer Name	Mahmoud Shukr spectra	**Email**	atyaf.m@uosamarra.edu.iq
Scientific Committee Approval Date	2024/10/20	**Version Number**	33

Relation with other Modules			
Relationship with other subjects			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
Course Objectives, Learning Outcomes, and Instructional Contents	
Module Objectives **Course Objectives**	**The main objective of studying soil principles is:** 1- Identify the concept of soil and its components. 2- Identifying the parts of the soil horizons and layers. 3- Identify the characteristics of the soil and its relationship with plant production. 4- Identify the types of soils to consider them as a medium for plant growth. 5- Identifying the contents of the soil in terms of decomposing organic and mineral materials. 6- Identifying the type of microorganisms that inhabit the soil. 7- Identify the factors of soil formation. 8- Identify the classification of soil construction. .Identifying the biological classification of soil water -9
Module Learning Outcomes **Learning Outcomes for the Course**	7- Understanding the basics of soil components: The student's ability to recognize basic soil components . 8- Ability to collect data on soil layers. 9- Use the optimal medium of soil types to give optimal plant yield. 10- Ability to self-learn and acquire new skills in the field of biological classification of soil water and whether or not the plant benefits from it. .Following up on recent developments in soil science -11
Indicative Contents **How-to Contents**	How-to content includes: 1. Understand theconcepts of soil and its components.

	Understanding the horizons, layers, characteristics, and types of soils and the -2 .factors affecting them

Learning and Teaching Strategies Learning and Teaching Strategies	
Strategies	1- Active learning in the subject of soil principles is an educational and diagnostic method based on the effective participation of students in the educational process so that the student is the center of the educational process . 2- Self-paced learning in Soil Principles: It is the provision of various educational resources such as e-lessons and books to motivate students to explore the content on their own. 3- Developing academic education according to quality standards in higher education, which enables colleges and universities to produce outputs that are capable of production and excellence in the labor market . Teaching the student practical applications and developing thinking skills to solve - 4 .emerging problems

Student Workload (SWL) The student's academic load is calculated for 15 weeks			
Structured SWL (h/sem) Student's regular academic load during the semester	80	**Structured SWL (h/w)** Regular Academic Load of the Student Weekly	5
Unstructured SWL (h/sem) Student's irregular academic load during class	45	**Unstructured SWL (h/w)** Student's irregular academic load per week	
Total SWL (h/sem) The student's total academic load during the semester			

Module Evaluation Assessment of the course					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2/6	10%	2and 3and5and 6and 9and 11	

	Assignments	2/2	10%	3 and5 and 8	
	Projects / Lab.	2/8	10%	Continuous	
	Report	5/2	10 %	2 and 4 and 5 and 8 and 9	
Summative assessment	**Midterm Exam**	2	10%	Continuous	
	Final Exam	3 hours	50%	16	
Total assessment			100% (100)		

Delivery Plan (Weekly Syllabus) Theoretical Weekly Curriculum	
	Material Covered
Week 1	General Definitions and Concepts of Soil Biology
Week 2	Evolution of soils
Week 3	Soil Formation Processes
Week 4	Physical properties of the soil
Week 5	Soil construction
Week 6	Soil air and its components
Week 7	Soil Temperature
Week 8	Soil Water Classification
Week 9	Colloids and Soil Chemical Properties
Week 10	Organic collids
Week 11	Biological Properties of Soil
Week 12	Methods of measuring the importance of soil acidity number
Week 13	Positive ion exchange capacity in soil
Week 14	Main Collections of Soil Biology
Week 15	End of course exam

Delivery Plan (Weekly Lab. Syllabus) Weekly Laboratory Curriculum	
	Material Covered
Week 1	View the main components of the soil (mediums, immature, mature, old)

Week 2	View the processes that led to the formation of soils
Week 3	Measurement of Soil Physical and Chemical Properties
Week 4	Soil Horizon Classification Training
Week 5	Measuring soil temperature and moisture
Week 6	Soil Water Classification Training
Week 7	Training in Soil Organic Colloids
Week 8	Training on the classification of Hungarian organisms present in the soil
Week 9	Training on methods of measuring and the importance of soil acidity number
Week 10	Training to Understand Positive Ion Exchange Capacity in Soil
Week 11	Soil Air Quality Inspection Training
Week 12	Training on Soil Water Constants (Field Capacity, Wilting Point, Hychroscopic Laboratories)
Week 13	Understanding Soil Tissue Varieties
Week 14	Soil Organic Content Measurement
Week 15	Measuring the level of minerals present in the soil

Learning and Teaching Resources

Learning and Teaching Resources

	Text	Available in the Library?
Required Texts	Methodology : Principles of Soil Science a.Dr. Abdullah Najm Al-Ani	
Recommended Texts	Fundamentals in Soil Science: Authorship Dr. Falah Abu Nuqta	No
Websites		

Grading Scheme

Grading Chart

Group	Grade	Recognition	Marks %	Definition
Success Group (50 - 100)	**A** - Excellent	Privilege	90 - 100	Outstanding Performance
	B - Very Good	Very good	80 - 89	Above average with some errors
	C - Good	Good	70 - 79	Sound work with notable errors
	D - Satisfactory	Medium	60 - 69	Fair but with major shortcomings
	E - Sufficient	Acceptable	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	Deposit (in (processing	(45-49)	More work required but credit awarded
	F – Fail	Fail	(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

Sample course description

Module Information Course Information					
Module Title	**Human Rights and Democracy**			**Module Delivery**	
Module Type	BASIC			☒ **Theory** ☐ **Reading** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	USAGFi1104				
ECTS Credits	2				
SWL (hr/sem)	50				
Module Level	1		**Semester of Delivery**	1	
Administering Department	2903Z100G003		**College**	Type Collge Code	
Module Leader	Mohammed Hassan Saeed		**Email**		
Module Leader's Acad. Title	Assistant Lecturer		**Module Leader's Qualification**	Master	
Module Tutor			**Email**		
Peer Reviewer Name			**Email**		
Scientific Committee Approval Date	22024/10/20		**Version Number**	33	

Relation with other Modules Relationship with other subjects			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents Course Objectives, Learning Outcomes, and Instructional Contents

Module Objectives **Course Objectives**	1. Knowledge of the necessary human rights principlesKnowledge of the principles of democracy and work to make it a success 2. Knowing the requirements of security and political stability in the country, consolidating the role of citizenship and preserving the national identity. 3. Spreading the culture of peaceful coexistence and respect for religious and ethnic specificities. 4. Knowledge of the state's policies in general in order to participate in their evaluation. 5- Students live together as individuals in an integrated society 6. Urging students to love the homeland and absolute loyalty to it. 7. Wide participation in political elections and active national presence in them. 8. The necessity of involving students in humanitarian and social activities that stimulate empathy with people
Module Learning Outcomes **Learning Outcomes for the Course**	1. Focus on and respect the national identity and work to consolidate its principles 2. The necessity of loving the homeland and the sons of the homeland, sowing the seeds of peaceful coexistence and living with dignity for all components 3. Consolidate, respect and mature the principles of human rights and democracy 4. Spreading the culture of accepting the other and respecting his religious, political, cultural and social specificity. 5. The necessity of cooperating with state institutions in order to establish security and safety throughout the country
Indicative Contents **How-to Contents**	Part A- Introduction to Human Rights Definition of Human Rights - Importance of Human Rights - The Difference Between Civil, Political, Social and Cultural Rights Part B- The Evolution of Human Rights Through the Ages – Key Milestones in the History of Human Rights – The Role of Social Movements in the Promotion of Human Rights

	Part C- International Declarations and Charters Part D. Concepts of Democracy Definition of democracy, its forms and principles, the role of elections in promoting democracy and the relationship between democracy and human rights

Learning and Teaching Strategies Learning and Teaching Strategies	
Strategies	1. Classroom participation through discussions, interventions, expressing opinions , and urging students to work together 2- The various activities carried out by the professor and the involvement of thestudents 3. Knowledge of the principles of human rights, the coexistence of students with each other as members of an integrated society. 4- Urging students to love the homeland and be the absolute first to it. 5. Wide participation in political elections and active national presence in them. 6. Involve students in humanitarian and social activities that stimulate empathy for people.

Student Workload (SWL) The student's academic load is calculated for 15 weeks			
Structured SWL (h/sem) Student's regular academic load during the semester	30	**Structured SWL (h/w)** Regular Academic Load of the Student Weekly	2
Unstructured SWL (h/sem) Student's irregular academic load during class	20	**Unstructured SWL (h/w)** Student's irregular academic load per week	1.3
Total SWL (h/sem) The student's total academic load during the semester	**50**		

Module Evaluation Assessment of the course					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
	Quizzes	2	10%	7 and 15	1,2,3

Formative assessment	**Assignments**	10	10%	2and 3,4and 4 and 6 and 8 and 9 and 10 and 12 and 14 and15	Everyone
	Projects / Lab.	1	10%	5	4,7,10
	Report	2	10%	7 and 11	5,8,9
Summative assessment	**Midterm Exam**	1	10%	Continuous	
	Final Exam	1	50%		
Total assessment			100% (100)		

Delivery Plan (Weekly Syllabus)

Theoretical Weekly Curriculum

	Material Covered
Week 1	Human Rights in Ancient Civilizations
Week 2	Human Rights in Divine Laws and Religions
Week 3	Human Rights Sources (International Sources)
Week 4	National Resources
Week 5	Human rights guarantees
Week 6	Human Rights Guarantees in Islam
Week 7	First month exam
Week 8	International human rights guarantees
Week 9	The Role of Regional Organizations in the Protection of Human Rights
Week 10	The Future of Human Rights
Week 11	Democracy and Types of Democracy
Week 12	Definitions, Elements and Pillars of Democracy
Week 13	Forms of Democracy
Week 14	Election
Week 15	Second Month Exam
Week 16	
Week 17	
Week 18	
Week 19	

Week 20	
Week 21	
Week 22	
Week 23	
Week 24	
Week 25	
Week 26	
Week 27	
Week 28	

Delivery Plan (Weekly Lab. Syllabus) Weekly Laboratory Curriculum	
	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	
Week 8	
Week 9	
Week 10	
Week 11	
Week 12	
Week 13	
Week 14	
Week 15	

Learning and Teaching Resources Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	The Book of Human Rights and Democracy by Assistant Professor Dr. Maher Sabri Kazim	
Recommended Texts	Democracy and Human Rights... Mohammed Abed Al , Jabri Recommended Books and References (Scientific Journals, Reports,....	No

	....Democracy is a synthetic attempt.... George Bordeaux Translated by Salem Nassar	
Websites	https://inee.org/sites/default/files/resources/ABC_Teaching_Human_Rights_AR.pdf	

Grading Scheme Grading Chart				
Group	**Grade**	Recognition	**Marks %**	**Definition**
Success Group (50 - 100)	**A** - Excellent	Privilege	90 - 100	Outstanding Performance
	B - Very Good	Very good	80 - 89	Above average with some errors
	C - Good	Good	70 - 79	Sound work with notable errors
	D - Satisfactory	Medium	60 - 69	Fair but with major shortcomings
	E - Sufficient	Acceptable	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	Deposit (in (processing	(45-49)	More work required but credit awarded
	F – Fail	Fail	(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

Sample course description

Module Information Course Information					
Module Title	Field Crops			**Module Delivery**	
Module Type	Core			☒ **Theory** ☒ **Reading** ☒ **Lab** ☒ **Tutorial** ☒ **Practical** ☒ **Seminar**	
Module Code	USAGFi1208				
ECTS Credits	7				
SWL (hr/sem)	175				
Module Level		1	**Semester of Delivery**		2
Administering Department		Field Crops Section	**College**		Faculty of Agriculture
Module Leader	Assoc. Prof. Dr. Mona Ayed Yousef		**Email**	muna.a.y@uosamarra.edu.iq	
Module Leader's Acad. Title		Lecturer Doctor	**Module Leader's Qualification**		PhD

Module Tutor		**Email**	
Peer Reviewer Name	Eng. Hussam Nafe Shaker	**Email**	iraqhusam91@gmail.com
Scientific Committee Approval Date	20/10/2024	**Version Number**	33

Relation with other Modules			
Relationship with other subjects			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents	
Course Objectives, Learning Outcomes, and Instructional Contents	
Module Objectives Course Objectives	1− Know the requirements for crop growth and the conditions of growth and production . Optimized for agricultural crops .Basic Principles of Agricultural Operations 2− 3− Managing pre− and post−harvest operations for various crops; With the aim of ensuring the quality and longevity of its shelf life. 4 . Systems of agricultural crop production and their relationship to environmental systems. 5- Choosing the appropriate varieties of crops, according to for the surrounding climatic conditions, the quality of the land, and water. 6- Implementing Integrated Crop Management Designing an agricultural cycle suitable for the field -7
Module Learning Outcomes **Learning Outcomes for the Course**	- Identify the basic concepts related to field crops and their economic and social importance. - Understand the environmental factors affecting the cultivation and production of field crops. - Identify the role of field crops in food security and industrial uses. - Applying modern agricultural techniques to improve the productivity of field crops. - Analyzing data related to agricultural production processes and assessing the impact of environmental factors on them. - Identify soil preparation methods and choose suitable crops based on climatic and soil conditions. - Ability to analyze agricultural problems related to field crops and propose

	practical sustainable solutions. - Developing scientific research skills in studying the life cycle of field crops and methods of improving them. Professional Skills - Acquire skills to work in a team to plan and implement integrated agricultural programs. - Understand the laws and policies related to field crop production and agricultural trade. - Strengthen capacities to communicate with farmers and provide technical advice to improve production. Moving towards sustainability - Recognizing the importance of sustainable agriculture and the conservation of natural resources in field crop management. Adopting modern technologies to achieve high productivity while- . minimizing the environmental impact
Indicative Contents **How-to Contents**	Lecture One: Introduction to Field Crops - Definition of field crops and their importance. - Scientific classification of field crops (food, industrial, fodder crops). - The role of field crops in food security and economic development. Second: Environmental Factors Affecting Crop Production - The impact of climate (temperature, light, precipitation) on crop growth. - The role of soil and its characteristics in crop production. - Water management and irrigation in field crops. Third: Basic Agricultural Operations - Choosing the right crops for different regions. - Preparing the soil for cultivation (tillage, leveling, soil improvement). - Farming practices such as traditional farming and modern farming. Fourth: Life cycle of field crops - Crop growth stages (germination, vegetative growth, flowering, maturity). - Factors affecting each stage of development. Fifth: Techniques for the production of field crops - Fertilization practices and the use of organic and mineral fertilizers. - Agricultural Pest and Disease Management. - Harvest and post-harvest techniques. Sixth: Productivity and Quality of Crops - Factors affecting productivity. - Improving the quality and characteristics of field crops. - Methods of storing and marketing crops. Seventh: Sustainable Agriculture in Field Crops - Conserving natural resources. - The use of modern agricultural technology. - Integration between field crops and sustainable environmental practices. Eighth: Practical Case Studies - Practical examples of field crop production management.

	. Field applications on the cultivation of specific crops such as wheat, maize, rice-

Learning and Teaching Strategies Learning and Teaching Strategies	
Strategies	The lecture and discussion strategy will be adopted - Allowing freedom of thought and developing self-confidence, and taking into account individual differences among students - Linking learning to life and making students feel the usefulness of this science - Developing students' planning skills, and carrying out multiple activities that lead to providing them with various new experiences - Teamwork, collaboration, and teamwork. - Brainstorming strategy. . .

Student Workload (SWL) The student's academic load is calculated for 15 weeks			
Structured SWL (h/sem) Student's regular academic load during the semester	80	**Structured SWL (h/w)** Regular Academic Load of the Student Weekly	5,3
Unstructured SWL (h/sem) Student's irregular academic load during class	95	**Unstructured SWL (h/w)** Student's irregular academic load per week	6,3
Total SWL (h/sem) The student's total academic load during the semester	**175**		

Module Evaluation Assessment of the course					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	2	10% (10)	5 and 9	LO #8, #9
	Assignments	2	10% (10)	3 and 7	LO #3, #4
	Projects / Lab.	-	10% (10)	Continuous	Everyone
	Report	3	10% (10)	13	LO #7, #8 and #9
Summative assessment	**Midterm Exam**	hours 2	10% (10)	7	LO #1 - #7
	Final Exam	hours 3	50% (50)	16	Everyone
Total assessment			100% (100)		

Delivery Plan (Weekly Syllabus) Theoretical Weekly Curriculum	
	Material Covered
Week 1	Introduction to field crop science , its definition, and importance
Week 2	By Hosts, Use, Plant Division,Field Crop Division
Week 3	Environmental factors and their relationship Crop Growth, Factors Climate , Heat , Damage High temperatures on field crops, Damage to low temperatures
Week 4	Light, Crop Adaptation To the light,
Week 5	Water, Crop Division according to their need for water, Pictures of water in the soil, Water Efficiency Before Harvest
Week 6	Germination process of field crop seeds, Types of germination
Week 7	Monthly exam
Week 8	Soil Service Processes / Tillage, Leveling, Soil Smoothing, Cultivation
Week 9	Seminar
Week 10	Fertilization Processes and the Use of Organic and Mineral Fertilizers
Week 11	Scientific visit
Week 12	Crop growth stages (germination, vegetative growth, flowering, maturity)
Week 13	Crop Pest Management , Presentation
Week 14	Feedback 1 - 6
Week 15	Feedback 7-13
Week 16	
Week 17	
Week 18	
Week 19	
Week 20	
Week 21	
Week 22	
Week 23	
Week 24	
Week 25	
Week 26	

Week 27	
Week 28	

Delivery Plan (Weekly Lab. Syllabus) Weekly Laboratory Curriculum	
	Material Covered
Week 1	Definition of Field Crops, Crop Terms
Week 2	Description of the grass family
Week 3	Botanical description of spelt
Week 4	Description of the legume family
Week 5	Botanical description of beans
Week 6	Germination of Field Crop Seeds
Week 7	Germination experience in the lab and field
Week 8	Soil Service Processes , Tillage, Smoothing
Week 9	Agriculture, Irrigation
Week 10	Scientific visit
Week 11	Slippery and Herbaceous
Week 12	Composting, Presentation
Week 13	Harvesting and Storage
Week 14	Feedback
Week 15	Field Practice

Learning and Teaching Resources Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	Al-Ansari, Majid Mohsen, et al. (1980). Principles of Field Crops, University of Baghdad, Ministry of Higher Education. and scientific research . Dar Al-Kutub for Printing and .Publishing	Yes
Recommended Texts	Hassanein, A. (2019); Al-Hawari, Muhammad Al-Asmar ; Saafan, Farouk Basics of Field Crop Production. Al-Azhar .(2021) . .University. Cairo	No
Websites	Crop Science Sci Magazine Website https://acsess.onlinelibrary.wiley.com/journal/14350653	

Grading Scheme Grading Chart				
Group	**Grade**	Recognition	**Marks %**	**Definition**
Success Group (50 - 100)	**A** - Excellent	Privilege	90 - 100	Outstanding Performance
	B - Very Good	Very good	80 - 89	Above average with some errors
	C - Good	Good	70 - 79	Sound work with notable errors
	D - Satisfactory	Medium	60 - 69	Fair but with major shortcomings
	E - Sufficient	Acceptable	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	Deposit (in (processing	(45-49)	More work required but credit awarded
	F – Fail	Fail	(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

Sample course description

Module Information Course Information					
Module Title	**Animal Production**			**Module Delivery**	
Module Type	Core			☒ **Theory** ☒ **Reading** ☐**Lab** ☐ **Tutorial** ☐ **Practical** ☒ **Seminar**	
Module Code	USAGFi1209				
ECTS Credits	5				
SWL (hr/sem)	125				
Module Level		1	**Semester of Delivery**		2
Administering Department		Ring crops	**College**	Agriculture	
Module Leader	Mohamed Ali Abdullah		**Email**	mohammed.ali.a@uosamarra.edu	
Module Leader's Acad. Title			**Module Leader's Qualification**		
Module Tutor			**Email**		
Peer Reviewer Name		Nibras Majed Abbas	**Email**	nibras.m.a@uosamarra.edu.iq	
Scientific Committee Approval Date		2024/10/20	**Version Number**		33

Relation with other Modules Relationship with other subjects			
Prerequisite module		**Semester**	
Co-requisites module		**Semester**	

Module Aims, Learning Outcomes and Indicative Contents Course Objectives, Learning Outcomes, and Instructional Contents	
Module Objectives **Course Objectives**	1- Studying the reality of livestock in Iraq and the Arab world. 2- The most important obstacles facing the livestock production sector and how to overcome these obstacles. 3. Identify the most important international and local breeds of cows producing milk and meat and their most important production and formal specifications. 4. Identifying the most important world-famous breeds of sheep at the world level with knowledge of the importance of economic sheep. 5. The most important local sheep breeds. 6. International and local goat breeds and their most important production specifications. 7- The importance of poultry and how to benefit from it, while identifying the breeds of meat and egg production.
Module Learning Outcomes **Learning Outcomes for the Course**	1. Through it, the student learns about the importance of livestock and its products. 2- The student's knowledge of successful livestock projects in the Arab region. 3- Identifying the most important milk-producing breeds and the biological importance of dairy cattle. 4. How to learn about buffalo breeding. 5. Introduce the student to the importance of fish farming and the most important types of fish farmed in Iraq. 6. How to keep farm records of animal production projects. 7. Identify the health care of farm animals.
Indicative Contents **How-to Contents**	Use the lecture. Use of exams. Use of illustrations. Use brainstorming.

Learning and Teaching Strategies Learning and Teaching Strategies	
Strategies	

Student Workload (SWL)			
The student's academic load is calculated for 15 weeks			
Structured SWL (h/sem) Student's regular academic load during the semester	90	**Structured SWL (h/w)** Regular Academic Load of the Student Weekly	6
Unstructured SWL (h/sem) Student's irregular academic load during class	35	**Unstructured SWL (h/w)** Student's irregular academic load per week	2.3
Total SWL (h/sem) The student's total academic load during the semester	125		

Module Evaluation					
Assessment of the course					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	5	%10(10)	2,5,7,9,11	
	Assignments	1	%10(10)		
	Projects / Lab.	1	%10(10)		
	Report	1	%10 (10)	13	
Summative assessment	**Midterm Exam**	2hrs			
	Final Exam	3 hours			
Total assessment			100% (100)		

Delivery Plan (Weekly Syllabus)	
Theoretical Weekly Curriculum	
	Material Covered
Week 1	**Introduction, the concept of animal production, the reality of animal production in Iraq**
Week 2	**The most important obstacles facing the livestock production sector, how to preserve livestock**
Week 3	**Cow breeds (dairy cattle breeds)**

Week 4	Breeds of beef cattle
Week 5	Buffalo breeding
Week 6	Challenges facing the meat sector
Week 7	International and local sheep breeds
Week 8	Some Biological Characteristics of Sheep
Week 9	Goat breeds
Week 10	The importance of poultry and the most important poultry breeds
Week 11	Fish farming and its importance
Week 12	Some of the farmed fish in Iraq and the Arab world
Week 13	Livestock Project Management
Week 14	Farm Animal Health Care
Week 15	Farm Records
Week 16	
Week 17	
Week 18	
Week 19	
Week 20	
Week 21	
Week 22	
Week 23	
Week 24	
Week 25	
Week 26	
Week 27	
Week 28	

Delivery Plan (Weekly Lab. Syllabus) Weekly Laboratory Curriculum	
	Material Covered
Week 1	Field Operations
Week 2	Hatching and Hatch Management
Week 3	Animal Field Records and Management
Week 4	Animal Housing and Shelter
Week 5	Calf care and care methods
Week 6	Nutrition and Methods of Serving Farm Animals
Week 7	Buffalo breeding methods
Week 8	Large animal dwellings and methods of construction
Week 9	Egg and Meat Chicken Housing and Design Methods

Week 10	**Methods of Establishing Broiling Calves Housing**
Week 11	**Horse and Camel Breeding Methods**
Week 12	**Fish Farming**
Week 13	**Methods of Establishing Fish Farms and Types of Fish Farms**
Week 14	**Agricultural Animal Health**
Week 15	**Farm Animal Health Care**

Learning and Teaching Resources		
Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	**Basics of Animal Production** **Dr. Zuhair Al-Jalili, Dr. Mohamed Adel, Dr. Farid Shahwani** **Talal Youssef** Production of Milk Cattle, Dr. Natiq Hamid Al-Qudsi Basics of sheep and goat production and breedir Dr. Jalal Elia Pastor Dr. Zuhair Al-Jalili. Dr. Dayeb Ishaq Aziz	Available
Recommended Texts		No
Websites	Wikipedia. Kinana Online website. Iraqi academic journalswebsite gafrd	

Grading Scheme				
Grading Chart				
Group	**Grade**	Recognition	**Marks %**	**Definition**
Success Group (50 - 100)	**A** - Excellent	Privilege	90 - 100	Outstanding Performance
	B - Very Good	Very good	80 - 89	Above average with some errors
	C - Good	Good	70 - 79	Sound work with notable errors
	D - Satisfactory	Medium	60 - 69	Fair but with major shortcomings
	E - Sufficient	Acceptable	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	Deposit (in (processing	(45-49)	More work required but credit awarded
	F – Fail	Fail	(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

Sample course description

Module Information Course Information					
Module Title	**Plant Chemistry**		**Module Delivery**		
Module Type	**Basic**		☒ **Theory** ☒ **Reading** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**		
Module Code	USAGFi1210				
ECTS Credits	**6**				
SWL (hr/sem)	**150**				
Module Level	2		**Semester of Delivery**	2	
Administering Department	Field Crops Section		**College**		
Module Leader	Name:Mohammed Hameed Mahal		**Email**	mhmaa84@gmail.com	
Module Leader's Acad. Title	Assistant Professor Doctor		**Module Leader's Qualification**	Ph.D.	
Module Tutor	Eng. Widyan Hamid Mahdi		**Email**		
Peer Reviewer Name			**Email**		
Scientific Committee Approval Date	20/10/2024		**Version Number**	33	

Relation with other Modules Relationship with other subjects			
Prerequisite module		**Semester**	
Co-requisites module		**Semester**	

Module Aims, Learning Outcomes and Indicative Contents Course Objectives, Learning Outcomes, and Instructional Contents

Module Objectives **Course Objectives**	is a subject concerned with the study of the chemical Phytochemistry components produced by plants and their impact on the environment and health. The objectives of this course include the following: 1. Understanding Phytochemical Compounds: • Study the types of chemical compounds found in plants (e.g., alkalis, flavonoids, terpenes, volatile oils, etc.). • Understanding the ways in which these compounds are formed within plants (primary and secondary metabolism). 2. Analysis of plant compounds: • Learn how to extract chemical compounds from plants. • Use analytical techniques to determine the composition of these compounds (e.g., chromatography, spectroscopy, etc.). 3. Explore health and medical benefits: • Studying the impact of plant compounds on human health (e.g., antioxidants, anti-inflammatories, natural remedies). • Exploring Medicinal Plants and Their Uses in Traditional and Modern Medicine. 4. New Product Development: • The use of plant compounds in the development of medicines and cosmetics. • Study the possibility of using it in the food and agricultural industries. 5. Environmental Protection and Biodiversity: • Study of the role of plants and their compounds in ecosystems. • Promoting the preservation of plants of medicinal and economic value. 6. Promoting scientific research: • Training students for scientific research in the field of phytochemistry. • Encourage the exploration of new compounds with potential applications. These goals contribute to the link between chemistry and botany, helping to develop environmental, medical, and industrial applications.
Module Learning Outcomes **Learning Outcomes for the Course**	The learning outcomes of the plant chemistry course aim to equip students with the knowledge and skills necessary to understand plant chemistry and its scientific and practical applications. The outputs include: 1. Knowledge and Understanding • Identify the main chemical components of plants (e.g., alkalis, phenols, terpenes, etc.). • Understanding the primary and secondary metabolic mechanisms in plants and their role in the production of plant compounds. • Understand the importance of plant compounds in health, the

	environment, and various industries. 2. Practical skills • Gain the ability to use phytochemical compound extraction techniques. • Be able to apply chemical analysis techniques (e.g. chromatography and spectroscopy) to identify plant compounds and study their properties. • Learn methods of separating and purifying plant compounds for use in various applications. 3. Critical and analytical thinking • Analysis of the relationship between the chemical structure of plant compounds and their biological functions. • Assessing the Impact of Plant Compounds on Health and the Environment. • Providing innovative solutions for the use of plant compounds in the development of pharmaceuticals and industrial products. 4. Practical and professional applications • Apply the knowledge gained to develop pharmaceutical, agricultural or industrial products based on plant compounds. • Utilizing medicinal plants sustainably and environmentally friendly. • Knowledge of the importance of preserving and exploiting plant diversity scientifically. 5. Research skills • Ability to conduct scientific experiments related to plant chemistry and analyze their results. • Design research projects focused on the study of plants and their medicinal or industrial uses. • Effective communication to present research results and new discoveries in plant chemistry. 6. Environmental Awareness • Understanding the role of plants and their compounds in maintaining environmental balance. • Raising awareness of the importance of medicinal plants and protecting them from extinction. The course seeks to prepare students to be scientifically and professionally qualified to contribute to the fields of research, industry, and environmental conservation through the applications of plant chemistry.
Indicative Contents How-to Contents	The Plant Chemistry Guidance Materials aim to provide a comprehensive and sequential framework for the study of the subject covering theoretical foundations and practical skills. The Plant Chemistry Guideline can be organized as follows:

1. Introduction to Plant Chemistry

- Definition and Importance of Plant Chemistry.
- History of the development of phytochemistry.
- The Relationship Between Plant Chemistry, Botany, and Pharmacology.
- Primary and secondary metabolism in plants.

2. Secondary plant compounds

A. Classification of plant compounds

- Alkali:
- ,Definition, chemical composition, examples (e.g., caffeine morphine).
- Its functions in the plant and its medicinal uses.
- Phenols:
- Their chemical composition and examples (e.g. tannins and flavonoids).
- Their role as antioxidants and antimicrobials.
- Turbines:
- Types (Single, Double, Triple).
- Its uses in perfumes and essential oils.
- Carbohydrates and proteins:
- Their role as storage materials and functional compounds.
- Volatile oils:
- Its sources, methods of extraction, and economic importance.

3. Extraction and Separation Techniques

- Principles of Plant Compound Extraction.
- Common extraction methods (use of solvents, distillation, hot water extraction).
- Separation techniques (paper chromatography, high-performance liquid chromatography - HPLC).
- Purification and Purity Testing of Plant Compounds.

4. Analytical methods for detecting plant compounds

- Use of physical and chemical methods in analysis.
- Analysis of Compounds Using Spectroscopy (UV-Vis ،AND ،NMR).
- Application of Chromatography in Vehicle Identification.

5. Medical and Industrial Applications of Plant Compounds

- Medicinal plants and their traditional and modern uses.
- Plant-derived medicines (e.g. atropine, digitalis).
- Use of plant compounds in the food and cosmetic industries.

	6. The Role of Plants in the Environment and Health • Environmental impacts of plant compounds (e.g. aromatics and insect repellents). • The relationship between plant diversity and human health. • Preserving and protecting medicinal plants from extinction. 7. Practical Experiments (Plant Chemistry Laboratory) • Extraction of Essential Oils from Aromatic Plants. • Separation and analysis of plant compounds using thin-layer chromatography (TLC). • Identification of Alkaloids and Phenols in Plant Extracts. • Testing the biological activity of plant compounds (e.g. antibacterial activity). 8. Research and Applied Projects • Design of studies on specific plants and analysis of their chemical components. • Study of Industrial and Pharmaceutical Applications of Plant Compounds. • Proposing sustainable ways to use medicinal plants. 9. Future Trends in Plant Chemistry • Innovations in analytical techniques for the discovery of new plant compounds. • Modern Applications of Phytochemistry in the Pharmaceutical and Food Industries. • Preserving the environment through sustainable phytochemistry. Instructional contents should include a balance between theoretical and practical ,aspects, with a focus on promoting research and application in medical .environmental, and industrial fields

Learning and Teaching Strategies Learning and Teaching Strategies	
Strategies	Teaching and learning strategies for plant chemistry aim to effectively achieve the objectives and outputs of the course through the use of various methods based on the integration of theoretical knowledge and practical application. The following are some of the proposed strategies: Interactive Lectures1. • Present theoretical information in a simplified and engaging way .using presentations and practical examples

	• Use drawings and diagrams to illustrate chemical and biological processes in plants. • Ask motivational questions during the lecture to promote critical thinking in students. 2. Project-Based Learning • Assign students to small projects related to the analysis of plant compounds or the study of medicinal plants. • Encouraging them to look for real applications of plant compounds in various industries (pharmaceuticals, cosmetics, food). • Presentation and Group Discussion of Project Results. 3. Hands-on learning (laboratory experiments) • Conducting laboratory experiments for the extraction, separation and analysis of plant compounds. • Train students in the use of analytical tools such as chromatography and spectroscopy. • Design experiments to test the biological activity of plant compounds, such as antimicrobial activity. 4. Problem-Based Learning • Introducing real problems or scenarios related to plant chemistry (e.g., developing a new plant medicine). • Divide students into groups to solve the problem through research and discussion. • Presenting and discussing solutions to enhance understanding. 5. Field Trips • Visit botanical gardens or plant research centers. • Identifying medicinal plants in nature and how to extract their compounds. • Visit factories or laboratories specialized in the extraction of plant materials. 6. Learning with technology • Using educational videos and electronic simulations to illustrate chemical reactions. • Providing online platforms for sharing educational content and discussions. • Use specialized software to analyze chemical and biological data. 7. Cooperative Education • Divide students into working groups to analyze a specific plant compound or study its medicinal application.

	• Organizing group discussions to analyze scientific texts on plant compounds. • Promote collaboration through group laboratory activities. 8. Diverse Assessment Strategies • Use Theoretical Tests to Assess General Understanding of the Material. • Evaluating practical performance in the laboratory through the accuracy of experiment execution and analysis of results. • Evaluation of research projects and student presentations. • Organize individual or group discussions to assess students' understanding of the concepts. 9. Learning based on creativity and innovation • Encourage students to propose new ideas for the application of plant compounds in industry or medicine. • Motivating them to look for sustainable ways to use medicinal plants. • Enhance innovative thinking skills through the design of new products based on plant chemistry. 10. Linking theory and practice • Explain the relationship between the theoretical knowledge of plant compounds and their practical applications in daily life. • Inviting industry or research professionals to give lectures on their practical experiences. 'The primary goal of teaching and learning strategies is to enhance students understanding of plant chemistry and enable them to apply what they learn in the fields of scientific research, industry, and environmental protection in a sustainable way.

Student Workload (SWL) The student's academic load is calculated for 15 weeks			
Structured SWL (h/sem) Student's regular academic load during the semester	60	**Structured SWL (h/w)** Regular Academic Load of the Student Weekly	4
Unstructured SWL (h/sem) Student's irregular academic load during class	90	**Unstructured SWL (h/w)** Student's irregular academic load per week	6
Total SWL (h/sem)	**150**		

The student's total academic load during the semester	

Module Evaluation Assessment of the course					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10%(10)		
	Assignments	2	10%(10)		
	Projects / Lab.	2	10%(10)		
	Report	2	10%(10)		
Summative assessment	Midterm Exam	2hr	10%(10)		
	Final Exam	2hr	50%(50)		
Total assessment			100% (100)		

Delivery Plan (Weekly Syllabus) Theoretical Weekly Curriculum	
	Material Covered
Week 1	Introduction to Medicinal and Aromatic Plants
Week 2	Conditions for the collection, preparation and preparation of medicinal plants
Week 3	Main chemical groups in medicinal and aromatic plants
Week 4	Volatile oils
Week 5	Alkaloids
Week 6	Klycosides
Week 7	Resins
Week 8	Tannins
Week 9	Vegetable Gum
Week 10	Chlorophyll
Week 11	Carotenoids
Week 12	Anthocyanins and Anthoxanthins

Week 13	Vegetable Sugars
Week 14	Plant Proteins
Week 15	Plant Nucleic Acids
Week 16	Exam

Delivery Plan (Weekly Lab. Syllabus) Weekly Laboratory Curriculum	
	Material Covered
Week 1	Devices and materials used to extract chemical compounds from plants
Week 2	Methods of collecting plant samples and preparing them for extraction
Week 3	Solvent extraction
Week 4	Steam distillation to obtain essential oils using a clafanger
Week 5	Ultrasonic Extraction
Week 6	The use of chromatography and its types for extraction
Week 7	Crystallization for repurification of materials
Week 8	Use of a rotary evaporator
Week 9	Identify and identify plant compounds
Week 10	Vehicle analysis using analytical instruments
Week 11	Practical Applications
Week 12	Documentation and Reporting
Week 13	
Week 14	
Week 15	

Learning and Teaching Resources Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	Plant Chemistry	
Recommended Texts	Atlas of Medicinal and Aromatic Plants in the Arab World	No
Websites		

Grading Scheme Grading Chart				
Group	**Grade**	Recognition	**Marks %**	**Definition**

Success Group (50 - 100)	**A -** Excellent	Privilege	90 - 100	Outstanding Performance
	B - Very Good	Very good	80 - 89	Above average with some errors
	C - Good	Good	70 - 79	Sound work with notable errors
	D - Satisfactory	Medium	60 - 69	Fair but with major shortcomings
	E - Sufficient	Acceptable	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX –** Fail	Deposit (in (processing	(45-49)	More work required but credit awarded
	F – Fail	Fail	(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

Sample course description

Module Information Course Information			
Module Title	**Flat Area**	**Module Delivery**	
Module Type	Plane Surveying	☒ **Theory** ☒ **Reading** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	USAGFi1212		
ECTS Credits	**4**		
SWL (hr/sem)	**100**		
Module Level	1	**Semester of Delivery**	2
Administering Department		**College**	
Module Leader	Abd El , Moneim Hassan Ahmed Ali	**Email**	moneim.h14@uosamarra.edu.iq
Module Leader's Acad. Title		**Module Leader's Qualification**	
Module Tutor	Nibras Majed Abbas	**Email**	nibras.m.a@uosamarra.edu.iq
Peer Reviewer Name		**Email**	
Scientific Committee Approval Date		**Version Number**	

Relation with other Modules Relationship with other subjects			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents Course Objectives, Learning Outcomes, and Instructional Contents	
Module Objectives **Course Objectives**	Theoretical : - Developing the student's ability to deal with scientific means - Developing the student's ability to deal with the Internet Developing the student's ability to deal with multiple means Developing the student's ability to dialogue and debate Developing the student's ability to deal economically in the Scope Practical : - Developing the student's ability to dialogue and debate - Developing the student's ability to deal with scientific means
Module Learning Outcomes **Learning Outcomes for the Course**	1 . Demonstrates the basic concepts of planar area and aerial photography and is able to prepare scientific surveys, visits and field surveys of natural, human and structural phenomena Completion of this webinar will be a student destined to 02 Classifies land uses and natural and human phenomena at the rural and urban levels using GIS and remote sensing .3. It links the skill of fieldwork with planar surveying devices and aerial photographs, and is carried out with field survey procedures and methods. 4. Applies the procedures for collecting and building various digital spatial databases, analyzing them, and processing spatial visualizations. Employ the skills acquired from the field survey course in preparing . 5 scientific research solving the geographical problem
Indicative Contents **How-to Contents**	Knowing the importance of surveying and documenting points on the ground Know the measuring instruments and types of tapes used Knowledge of the measurement of irregular boundary lands Read map gauges and install them on the ground

Learning and Teaching Strategies Learning and Teaching Strategies	
Strategies	

	- Interactive Lecture - Brainstorming - Dialogue and discussion - Assign teamwork to reveal leadership skills - assign tasks for each lecture of assigning tasks and reporting and duties

Student Workload (SWL) The student's academic load is calculated for 15 weeks			
Structured SWL (h/sem) Student's regular academic load during the semester	60	**Structured SWL (h/w)** Regular Academic Load of the Student Weekly	4
Unstructured SWL (h/sem) Student's irregular academic load during class	40	**Unstructured SWL (h/w)** Student's irregular academic load per week	2.66
Total SWL (h/sem) The student's total academic load during the semester			

Module Evaluation

Assessment of the course

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	1	%10(10)	3	1-3
	Assignments	1	%10(10)	7	4-6
	Projects / Lab.				
	Report	1	%10(10)	10	1-12
Summative assessment	Midterm Exam	2	%20(20)	13	all
	Final Exam	3	%50(50)	16	all
Total assessment			100% (100)		

Delivery Plan (Weekly Syllabus)

Theoretical Weekly Curriculum

	Material Covered
Week 1	of space in agricultural work The student should learn about the importance

Week 2	.errors The student should be familiar with the measurement systems, units of measurement, and
Week 3	The student should be familiar with the conditions for choosing the stations
Week 4	The student should be familiar with the errors in the survey process and the ways to treat and .overcome them
Week 5	The student should be familiar with the drawing scale, its types, types, and determining factors
Week 6	.regular and irregular shapes, area with coordinates The student should be familiar with
Week 7	.The student should be familiar with the terms of adjustment and the types of adjustments
Week 8	of leveling , the phenomena of curvature and The student should be familiar with the types refraction and their treatment
Week 9	The student should be familiar with the methods of calculating the levels of points and the .difference in height, direct and indirect
Week 10	the longitudinal sectors and the steps of work The student should be familiar with the work of Determining a central axis
Week 11	The student should be familiar with the calculation of the points levels and the measure of distances
Week 12	The student should be familiar with the evaluation of the economics of the project
Week 13	topographic maps and their methods of representation The student should be familiar with
Week 14	and the ways to find The student should be familiar with the method of contour contour lines them
Week 15	the horizontal and The student should be familiar with the theodolite device and measure .vertical angles
Week 16	
Week 17	
Week 18	
Week 19	
Week 20	
Week 21	
Week 22	
Week 23	
Week 24	
Week 25	
Week 26	
Week 27	
Week 28	

Delivery Plan (Weekly Lab. Syllabus)

Weekly Laboratory Curriculum

	Material Covered
Week 1	.The measurement tools are: leveling scale, making leveling screws, and the concept of glasses
Week 2	Explain the methods of using the tape, the measuring wheel and the use of pointers in the flat area
Week 3	Measuring distance on maps
Week 4	Erection of Columns
Week 5	Measuring horizontal distances on flat ground

Week 6	Measuring horizontal distances on sloping or inclined terrain
Week 7	Drop the columns
Week 8	Use of Leveling Devices
Week 9	Types of Leveling and Reading Ruler
Week 10	Measurement through an obstacle that prevents observation and does not prevent measurement (ground elevation)
Week 11	Install the field book and field team names
Week 12	Use of the thioladolite device and the tachymeter
Week 13	Measurement through an obstacle that prevents measurement and prevents observation and can be circumvented (rock, lake)
Week 14	Knowing the error in the leveling tool, line straightness, and the effect of weather conditions on the measuring instrument
Week 15	Applying a field visit to some agriculture departments to learn about surveying tools

Learning and Teaching Resources

Learning and Teaching Resources

	Text	Available in the Library?
Required Texts	The Book of the Foundations of Planar and Topographical Area M. Riad Saleh Al , Khafaf	
Recommended Texts	Scientific journals, reports and research related to planar area	No
Websites	All locations that have to do with area and topography	

Grading Scheme

Grading Chart

Group	Grade	Recognition	Marks %	Definition
Success Group (50 - 100)	**A** - Excellent	Privilege	90 - 100	Outstanding Performance
	B - Very Good	Very good	80 - 89	Above average with some errors
	C – Good	Good	70 - 79	Sound work with notable errors
	D - Satisfactory	Medium	60 - 69	Fair but with major shortcomings
	E - Sufficient	Acceptable	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	Deposit (in (processing	(45-49)	More work required but credit awarded
	F – Fail	Fail	(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.

Sample Description of General English Language for the Early Stages at the Faculty of Agriculture

Course Information Module Information			
Module Title Unit Title	English	Module Delivery Giving Unity	
Module Type Unit Type	Basic	Theory X LectureX Lecture	
Module Code Module Code	UOS-12011		
ECTS Credits System Credits	2		
SWL(hr/sem)	50		
Module Level Unit Level	1	Semester of Delivery Delivery Separation	1
Administering Department Administrative Department	Type Dept. Code	College College	College Code Type
Module Leader Head of the Unit	Name:Abdullah Hashim Ibrahim	Email	email abdullah.h@uosamarra.e
Module Leader s Acad.Title Academic Degree of the Head of the Unit	Assistant Professor	Module Leader s Qualification Qualifications of the Head of the Unit	BUT
Module Tutor Unit Instructor		Email	
Peer Reviewer Name Name of peer references		Email	
Scientific Committee Approval Date Date of approval of the Scientific Committee	2024/10/20	Version Number Issue Number	33

Relation with other Modules

Relationship with other subjects		
Prerequisite module Prerequisites Module	None	Semes
Co-requisites module Common Requirements Module	None	Semes

Module Aims,Learning Outcomes and Indicative Contents Course Objectives, Learning Outcomes and Instructional Contents	
Module Aims Course Objectives	The general objectives that the English language at t College of Agriculture seeks to achieve through its programs are as follows: A. Student Education English language and all its skills. b. Prepare a competent physical education teache who is able to use a secondary language. T. Preparing a student who is able to understand t English language and her skills. - W. Developing students' level and raising their awareness of the importance of language in the prima and advanced stages Investing in the English language subject theoretically and practically to improve t .educational le
Module Learning Outcomes Learning Outcomes for the Course	1 – Master the four English language skills: listeni reading, speaking, and writing. 2. Describe literary phenomena in different eras. Knowledge of the basic rules of the English .langua
Indicative Contents How-to Contents	None

Learning and teaching strategies Learning and Teaching Strateg	
strategies	.Active learning Collaborative Learning .Brainstorming Free and Guided Discussions

	Task analysis

Student Workload (SWL) Student's Academic Load			
Structured SWL (h/sem) Student's regular academic load during the semester	102	Structured SWL (h/w) Regular Academic Load of the Student Weekly	
Unstructured SWL (h/sem) Student's irregular academic load during class	30	Unstructured SWL (h/w) Student's irregular academic load per week	
Total SWL (h/sem) The student's total academic load during the semester	50		

Module Evalution Assessment of the course					
		Time/ Number	Weight(Marks)	Week DueDue Week	Relevant Learning Qutcome Related Learni
Formative Assessment Formative Assessment	Quizzes Quizzes	2	10%(10)	5,10	Lo#1,2,10 and
	Assigments Duty	2	10%(10)	2,12	
	Laboratory Project Projectes/Lab	1	10%(10)	Continuous	
	Report Report	1	10%(10)	13	
Summative Assessment	Midterm Exam Midterm Exam	2hr	10%(10)	7	
	Final ExamFinal Exam	2hr	50%(50)	16	
Total Assessment			100%(100) marks		

Theoretical Weekly Curriculum

Delivery plan(Weekly Subllabus)	
	Materail coveredMaterials given
Week 1	**Times in general**
Week2	**Question Composition – Introduction**
Week3	**Present Tense - Introduction**
Week4	**Past Tendes - Introduction**
Week5	**Time and date**
Week6	**Quantities**
Week7	**Written exam**
Week8	**Future Time**
Week9	**Comparison and preference**
Week10	**Directions**
Week11	**Perfect Present**
Week12	**Circumstances**
Week13	**Short Answers**
Week14	**Written exam**
Week15	**Additional rules**

Learning and Teaching Resources Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	Evaluation of Headway (Plus) Course book of EFL Undergraduate Iraqi Students	
Recommended Texts Recommended	New Headway Beginners	No
Websites		

Grading Scheme Grading Chart

Group	Grade	Recognition	Marks %	Definition
Success Group (50 - 100)	**A** - Excellent	Privilege	90 - 100	Outstanding Performance
	B - Very Good	Very good	80 - 89	Above average with some errors
	C - Good	Good	70 - 79	Sound work with notable errors
	D - Satisfactory	Medium	60 - 69	Fair but with major shortcomings
	E - Sufficient	Acceptable	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – Fail	Deposit (in (processing	(45-49)	More work required but credit awarded
	F – Fail	Fail	(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.

Note: Decimal marks above or below 0.5 will be rounded to the highest or lowest full score e.g., 54.5 will be rounded to 55, while 54.4 will be rounded to 54. The University has a) policy of not tolerating "close pass failure" and therefore the only adjustment to the marks .awarded by the original mark(s) will be the automatic rounding described above

MODULE DESCRIPTION FORM

Sample course description

Module Information Course Information					
Module Title	**Arabic Language**			**Module Delivery**	
Module Type	Basic			☒ **Theory** ☒ **Reading** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	**UOS-1102**				
ECTS Credits	**2**				
SWL (hr/sem)					
Module Level	2		**Semester of Delivery**	2	
Administering Department	Minor Crops Section		**College**	Agriculture	
Module Leader	Inam Jassim Mohammed		**Email**	j@uosamarra.edu.iq	
Module Leader's Acad. Title	Assistant Lecturer		**Module Leader's Qualification**	Master	
Module Tutor			**Email**		
Peer Reviewer Name			**Email**		
Scientific Committee Approval Date	2024/10/20		**Version Number**	33	

Relation with other Modules Relationship with other subjects			
Prerequisite module	None	**Semester**	
Co-requisites module	None	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents Course Objectives, Learning Outcomes, and Instructional Contents	
Module Objectives **Course Objectives**	**This course description provides a brief summary of the importance of the Arabic language by preserving the Arab identity and culture in light of globalization and showing the beauty of the Arabic language, the breadth of its meanings, structural and rhetorical methods, and the beauty of its images, which are manifested first in the Holy Qur'an and literature, which enable one to read the Holy Qur'an correctly without errors, and to understand its**

	true meaning, in addition to the fact that the course is based on the knowledge of the Arabic language. The basics of spelling, and if he makes a mistake, he learns from his mistakes, by drawing the word correctly, and the objectives of the course are: 6. **Enabling students to understand the rhetoric of the Holy Qur'an and learn about the aesthetics of the language in it** 7. **Training students to use punctuation marks between sentences correctly.** 8. **The students' literary horizons should be broadened in terms of ideas, meanings and moral values.** **Teach students the basics of spelling, which enables them to draw** .9 **- .words correctly**
Module Learning Outcomes **Learning Outcomes for the Course**	**A. Cognitive Objectives** **A1- Knowledge of the basics of Arabic spelling.** **A2- Identifying world literature and their influence on Arabic literature .** **A3- Studying some Qur'anic verses in order to explore the linguistic and rhetorical aspects of them.** **b. Skill objectives of the course.** **B1 – Writing properly .** **B2 – Ability to extract common errors in daily use.** **B3- The ability to identify the points of Qur'anic rhetoric as well as to .know their impact on understanding the meanings**
Indicative Contents **How-to Contents**	**1. Good reading** **2- Proper writing** **3. Active listening** **4. Speaking and Speaking** **5. Text Analysis** **Language Culture .6**

Learning and Teaching Strategies Learning and Teaching Strategies	
Strategies	- Using educational discussion (educational dialogue) which depends on exchanging ideas to reach the facts Use of modern computer technologies -

Student Workload (SWL)

The student's academic load is calculated for 15 weeks			
Structured SWL (h/sem) Student's regular academic load during the semester	30	**Structured SWL (h/w)** Regular Academic Load of the Student Weekly	2
Unstructured SWL (h/sem) Student's irregular academic load during class	20	**Unstructured SWL (h/w)** Student's irregular academic load per week	1.3
Total SWL (h/sem) The student's total academic load during the semester	**50**		

Module Evaluation

Assessment of the course

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	**Quizzes**	2	10%	7 and 15	1,2,3
	Assignments	10	10%	2and 3,4and 4 and 6 and 8 and 9 and 10 and 12 and 14 and15	Everyone
	Projects / Lab.	1	10%	5	4,7,10
	Report	2	10%	7 and 11	5,8,9
Summative assessment	**Midterm Exam**		10%		
	Final Exam		50%		
Total assessment			100% (100)		

Delivery Plan (Weekly Syllabus)

Theoretical Weekly Curriculum

	Material Covered
Week 1	Arabic among the world's languages
Week 2	The Origin of the Spoken and Written Language and the Beginning of Codification
Week 3	Grammar System Basic Introduction to Grammar -

Week 4	Qur'anic Rhetoric Surah Al-Duha -
Week 5	Written System Punctuation -
Week 6	Written System - Connector and Cutting - Medium Hamza Hamza at the end of the word -
Week 7	First Month Exam
Week 8	Quranic Rhetoric – Surah Al-Kahf
Week 9	Written System - Tied and distracted Elongated and Cabin Thousand -
Week 10	Issue in Arabic
Week 11	Arabic and Computer
Week 12	Common mistakes in Arabic - Official correspondence Daily use of language -
Week 13	- Arabic and Arabization Basic Introduction to the Science of Arabization -
Week 14	- World Literature and Orientalism Two poets model -
Week 15	Second Month Exam
Week 16	
Week 17	
Week 18	
Week 19	
Week 20	
Week 21	
Week 22	
Week 23	
Week 24	
Week 25	
Week 26	
Week 27	
Week 28	

Delivery Plan (Weekly Lab. Syllabus) Weekly Laboratory Curriculum	
	Material Covered
Week 1	

Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	
Week 8	
Week 9	
Week 10	
Week 11	
Week 12	
Week 13	
Week 14	
Week 15	

Learning and Teaching Resources

Learning and Teaching Resources

	Text	Available in the Library?
Required Texts		
Recommended Texts	**The Book by Sibuyeh, The Secrets of Rhetoric by Al-Jurjani, Spelling and Numbering in Arabic Writing .by Abdul Aleem Ibrahim**	No
Websites		

Grading Scheme

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MODULE DESCRIPTION FORM

Sample course description

Module Information Course Information					
Module Title	Agricultural economics			**Module Delivery**	
Module Type	Reading			☒ **Theory** ☒ **Reading** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	USAGFi1211				
ECTS Credits	4				
SWL (hr/sem)	100				
Module Level		The first stage	**Semester of Delivery**		1
Administering Department		Field Crops Section	**College**	College of Agriculture	
Module Leader	zainab Riyadh Salim		**Email**		
Module Leader's Acad. Title		Assistant teacher	**Module Leader's Qualification**		
Module Tutor	zainab Riyadh Salim		**Email**	Zenab.r.sa@uosamarra.edu.iq	
Peer Reviewer Name			**Email**		
Scientific Committee Approval Date		2024/10/20	**Version Number**	33	

Relation with other Modules Relationship with other subjects			
Prerequisite module	None	**Semester**	
Co-requisites module		**Semester**	

Module Aims, Learning Outcomes and Indicative Contents Course Objectives, Learning Outcomes, and Instructional Contents

Module Objectives **Course Objectives**	10. The curriculum includes a comprehensive study of economics and identification of its most important branches and the productive function 11. Methods of calculating labor and disappearance , knowing supply and demand, and how to calculate labor productivity and disappearance.
Module Learning Outcomes **Learning Outcomes for the Course**	1- Knowledge and Comprehension: Forming an economic foundation for understanding economic materials and expanding the student's abilities to understand, know, and analyze economics. 2- Special Skills: Expand students' abilities in economic analysis and give information about economics and the state of the market from supply and demand. 3- Lectures, Teaching and Learning Method. 4- Evaluation: Essay tests, topical tests, and are in the form of daily, monthly tests, and the final test. 5- Thinking skills and teaching and learning methods: using personal, linguistic and mathematical intelligence strategies as well as using the brainstorming method. 6- Evaluation Methods: Using methods that are compatible with the objectives of the Principles of Economics course, such as concepts, graphs, and applied .mathematical equations
Indicative Contents How-to Contents	

Learning and Teaching Strategies Learning and Teaching Strategies	
Strategies	week in-person lectures with dialogues, discussions, and exercises, interspersed-15 .with monthly exams and daily exams, in addition to student reports and activities

Student Workload (SWL) The student's academic load is calculated for 15 weeks			
Structured SWL (h/sem) Student's regular academic load during the semester	48	**Structured SWL (h/w)** Regular Academic Load of the Student Weekly	3,2
Unstructured SWL (h/sem) **Student's irregular academic load during class**	52	**Unstructured SWL (h/w)** Student's irregular academic load per week	3,4
Total SWL (h/sem) The student's total academic load during the semester	**100**		

Module Evaluation Assessment of the course					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	4	20%	4 and 9 and 13	
	Assignments	2	10%	2 and 12	
	Projects / Lab.				
	Report	1	10%	13	
Summative assessment	**Midterm Exam**	2hr	10%	7	
	Final Exam	3hr	50%	16	
Total assessment			100% (100)		

Delivery Plan (Weekly Syllabus) Theoretical Weekly Curriculum	
	Material Covered
Week 1	The concept of economics and its elements and branches
Week 2	Production Concept
Week 3	Productive function
Week 4	The Law of Declining Yields and Production Stages
Week 5	Production Principles and Costs
Week 6	Demand and Price Elasticity
Week 7	Supply and Price Flexibility
Week 8	First month exam
Week 9	Production Costs
Week 10	Work and work productivity
Week 11	Measuring work productivity
Week 12	Agricultural Marketing
Week 13	Economics of agricultural production
Week 14	Extinction of fixed assets
Week 15	Methods of calculating extinction
Week 16	
Week 17	
Week 18	

Week 19	
Week 20	
Week 21	
Week 22	
Week 23	
Week 24	
Week 25	
Week 26	
Week 27	
Week 28	

Delivery Plan (Weekly Lab. Syllabus) Weekly Laboratory Curriculum	
	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	
Week 8	
Week 9	
Week 10	
Week 11	
Week 12	
Week 13	
Week 14	
Week 15	

Learning and Teaching Resources Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	- Al-Hasnawi, Karim Mahdi. 1989. Principles of Economics. Baghdad - Al-Najafi, Salem Mohammed, 1999 Principles of Agricultural Economics. University of Mosul	No

Recommended Texts		
Websites	https://www.agro-lib.site/2024/03/blog-post_65.html?m=1	

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