Ministry of Higher Education and Scientific Research
University of Samarra
College of Agriculture
Department of
Horticulture and landscaping

Academic Program and Guide for the Department of Horticulture and landscaping

2025 – 2024

Introduction:

About the Department of Horticulture and Landscape Design at the College of Agriculture, Samarra University: The Department of Horticulture and Landscape Design at the College of Agriculture, Samarra University, is a specialized academic department dedicated to the study of plant production and the art of landscape architecture. The department aims to prepare qualified agricultural engineers equipped with scientific knowledge and practical skills to develop the horticultural sector, manage orchards, and design sustainable green spaces to enhance the environment and community well-being.

Academic Programs: The department offers a Bachelor of Science in Horticulture and Landscape Design. Students study a diverse range of courses, including pomology (fruit production), vegetable production, ornamental plants, floriculture, landscape design, plant tissue culture, and greenhouse management. The program balances theoretical lectures with intensive practical training in the department's nurseries, orchards, and design studios.

Career Opportunities for Graduates:

Graduates of the Horticulture and Landscape Design Department have diverse career paths, including:

Managing and establishing commercial fruit orchards and vegetable farms.

Designing, executing, and maintaining public parks, private gardens, and urban landscapes.

Working in agricultural research centers and plant nurseries.

Working in government agencies such as the Ministry of Agriculture and Municipalities.

Managing greenhouses and hydroponic systems.

Activities and Events: The department organizes specialized workshops, field trips to agricultural sites, and flower festivals. It also hosts seminars on the latest sustainable agricultural techniques and modern landscape design trends, encouraging students to participate in environmental initiatives and community greening projects.

Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the

targeted learning outcomes for the Horticulture and Landscape Design program according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the horticultural and design courses and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities in laboratories, orchards, and nurseries. It is derived from the program description.

Program Vision: An ambitious picture for the future of the Horticulture and Landscape Design program to be sophisticated, inspiring, stimulating, realistic and applicable in the field of modern agriculture and sustainable landscape architecture.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions in producing skilled agricultural engineers specialized in plant production and environmental design.

Program Objectives: They are statements that describe what the Horticulture and Landscape Design program intends to achieve within a specific period of time and are measurable and observable in terms of student competence and field application.

Curriculum Structure: All courses / subjects included in the academic program (e.g., Pomology, Floriculture, Landscape Architecture) according to the approved learning system (Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the Horticulture and Landscape Design program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, including field practical's and design projects, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

University Name: Samarra University

Faculty/Institute: College of Agriculture

Scientific Department: Horticulture and Landscape Design

Academic or Professional Program Name: Bachelor of Science in Horticulture and Landscape Design.

Final Certificate Name: Bachelor of Science in Agricultural Sciences / Horticulture and Landscape Design

Academic System: Bologna Process

Description Preparation Date: 1/3/2025

File Completion Date: 31/3/2025

Signature: .....

Head of Department Name:

Ghasan Zaid Mrief

Date: 31/3/2025

Signature: .....

Scientific Associate Name:

Prof. Dr. Khaled Abdullah Sahar

Date: 31/3/2025

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: 31/3/2025

Signature:

Muhannad Nima Jabouri

جامعة سامراء - كلية الزراعة

شعبة ضمان الجودة وتقييم الاداء

Approval of the Dean

Prof. Dr. Khaled Abdullah Sahar

وصف المقررات الدراسية للمرحلة الاولى حسب مسار بولونيا باللغة الانكليزية للعام الدراسي 2025- 2024

MODULE DESCRIPTION FORM

Course Description Form

Module Information mationCourse Infor					
Module Title	Agricultural Economics			**Module Delivery**	
Module Type	support			☒ **Theory** ☒ **Reading** ☐**Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	USAGHL1105				
ECTS Credits	4				
SWL (hr/sem)	100				
Module Level	1		**Semester of Delivery**	1	
Administering Department	Horticulture and landscaping		**College**	College of Agriculture	
Module Leader	Zainab Riad Salem		**email**	Zenab.r.sa@uosamarra.edu.iq	
Module Leader's Acad. Title	Assistant Lecturer		**Module Leader's Qualification**	Master Degree	
Module Tutor			**email**		
Peer Reviewer Name			**email**		
Scientific Committee Approval Date	5/11/2024		**Version Number**	5	

Relation with other Modules Relationship with other subjects			
Prerequisite module	There isn't any	**Semester**	
Co-requisites module	No	**Semester**	

جامعة سامراء كلية الزراعة
قسم البستنة و هندسة الحدائق

Module Aims, Learning Outcomes and Indicative Contents Course objectives, learning outcomes and instructional contents	
Module Objectives **Course Objectives**	The curriculum includes a comprehensive study of economics and .3 identification of its most important branches and the productive function knowing supply and demand, ،Methods of calculating labor and extinction .4 .and how to calculate labor productivity and extinction
Module Learning Outcomes **Learning outcomes of the course**	Knowledge and understanding: Forming an economic basis for understanding - 7 economic subjects and expanding the student's abilities to understand, know and analyze economics. Special Skills: Expand students' abilities in economic analysis and give - 8 information on economics and the market situation of supply and demand. The method of lectures, teaching and learning. - 9 Evaluation: essay tests and topical tests in the form of daily, monthly - 1 0 and final exams. Thinking skills and teaching and learning methods: using personal, - 1 1 linguistic and mathematical intelligence strategies, as well as using the brainstorming method . The use of methods that suit the objectives of the :Evaluation methods - 1 2 principles of economics of concepts, graphs and applied mathematical .uationseq
Indicative Contents **Indicative Contents**	Using explanations and presentations and understanding students about the mechanism of agricultural economics and how to apply it on the ground

Learning and Teaching Strategies egiesLearning and Teaching Strat	
Strategies	weeks with dialogues, discussions and exercises, 15 face lectures for-to-Face in addition to reports and ،exam and daily exams the monthly interspersed with student activities

Student Workload (SWL) ulated for 15 weeksThe student's academic load is calc			
Structured SWL (h/sem) Regular academic load of the student during the semester	62	**Structured SWL (h/w)** Regular student load per week	4
Unstructured SWL (h/sem) **Irregular academic load of the student during the semester**	38	**Unstructured SWL (h/w)** Irregular student academic load per week	
Total SWL (h/sem) The student's total academic load during the semester	**100**		

Module Evaluation Course Evaluation					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	4	10% (5)	4 and 9 and 11-13	5-2
	Assignments	2	10%(5)	2 and 12	3
	Projects / Lab.				
	Report	1	10%(5)	13	4
Summative assessment	Midterm Exam	1hr	10%(10)	7	ALL
	Final Exam	2hr	50%	16	
Total assessment			100% (100)		

Delivery Plan (Weekly Syllabus) Theoretical Weekly Curriculum	
	Material Covered
Week 1	The concept of economics, its elements and branches
Week 2	Production concept
Week 3	Productivity function
Week 4	The law of decreasing yields and stages of production
Week 5	Production and cost principles
Week 6	Demand and price elasticity of demand
Week 7	Supply and price elasticity
Week 8	First month exam
Week 9	Production costs
Week 10	Labor and labor productivity
Week 11	Measuring labor productivity
Week 12	cultural MarketingAgri

Week 13	Economics of agricultural production
Week 14	Extinction of fixed assets
Week 15	Methods for 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 Curriculum of the Laboratory	
	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	-Hasnaoui, Karim Mahdi. 1989.Principles of Economics.university Baghdad - 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	

Grading Scheme Grading chart				
Group	**Grade**	Appreciation	**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	bleAccepta	50 - 59	Work meets minimum criteria
Fail Group (0 – 49)	**FX** – File	in) Deposit (processing	(45-49)	More work required but credit awarded
	F – Fail	Failure	(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

Course Description Form

Module Information Course Information					
Module Title	**English Language**			**Module Delivery**	
Module Type	Basic			☒ **Theory** ☒ **Reading** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	USAGHL1111				
ECTS Credits	2				
SWL (hr/sem)	50				
Module Level	1		**Semester of Delivery**	1	
Administering Department	Horticulture and engineering Gardens		**College**	College of Agriculture	
Module Leader	aqBilal Saad Mutl		**email**	Bilal.saad.m@uosamarra.edu.iq	
Module Leader's Acad. Title	Assistant teacher		**Module Leader's Qualification**	Msc	
Module Tutor			**email**		
Peer Reviewer Name			**email**		
Scientific Committee Approval Date	5 /11 /2024		**Version Number**	1	

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

جامعة سامراء كلية الزراعة
قسم البستنة
و هندسة الحدائق

Module Aims, Learning Outcomes and Indicative Contents utcomes and instructional contentsCourse objectives, learning o	
Module Objectives Course Objectives	A- Teaching students the English language and all its skills. B- Preparing a competent physical education teacher proficient in using a secondary language. C- Preparing a student capable of understanding the English language and its skills. D- Developing students' level and raising their awareness of the importance of language in both elementary and advanced stages. E- Investing in the English language subject theoretically and practically to enhance the educational level.
Module Learning Outcomes Learning outcomes of the course	1 – Mastering the four English language skills: listening, reading, speaking, and writing. 2 - Description of literary phenomena in different eras. 3- Knowledge of the basic rules of the English language.
Indicative Contents Indicative Contents	. Active Learning. 2. Cooperative Learning. 3. Brainstorming

Learning and Teaching Strategies Learning and Teaching Strategies	
Strategies	1. Active Learning. 2. Cooperative Learning. 3. Brainstorming. 4. Free and Guided Discussions. 5. Task Analysis.

Student Workload (SWL)			
The student's academic load is calculated for 15 weeks			
Structured SWL (h/sem) Regular academic load of the student during the semester	33	**Structured SWL (h/w)** Regular student load per week	2
Unstructured SWL (h/sem) Irregular academic load of the student during the semester	17	**Unstructured SWL (h/w)** Irregular student academic load per week	
Total SWL (h/sem) ad The student's total academic lo during the semester	**50**		

Module Evaluation					
Course Evaluation					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	5	10 % (5)	3-4-7-8-10	3-4
	Assignments	3	10 % (5)	2-5-6	1-3-7
	Projects / Lab.				
	Report	3	10 % (5)	4-6-9	2-5
Summative assessment	**Midterm Exam**	1 -1h	10 % (5)	8	all
	Final Exam	1 – 2 hours	50 % (50)		all
Total assessment			100 % (100)		

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قسم البستنة وهندسة الحدائق

Delivery Plan (Weekly Syllabus)	
Theoretical Weekly Curriculum	
	Material Covered
Week 1	English Alphabets
Week 2	English Numbers
Week 3	Personal Pronouns
Week 4	Demonstrative Pronouns
Week 5	Possessive Pronouns
Week 6	Written Exam
Week 7	Question making
Week 8	Question making - Negation

Week 9	Possessive Adjectives
Week 10	Possessive Pronouns
Week 11	Simple Present Tense
Week 12	Identifications
Week 13	Written Exam
Week 14	Negation
Week 15	Object Pronouns
Week 16	Prepositions
Week 17	Simple Past Tense
Week 18	Written Exam
Week 19	Past Question and Negation
Week 20	Modal Verbs
Week 21	Polite Request
Week 22	Present Continuous
Week 23	Question and Negation in Continuous Tenses
Week 24	Tenses Review
Week 25	Irregular Verbs
Week 26	Common Words
Week 27	Social Terms
Week 28	Written Exam

Delivery Plan (Weekly Lab. Syllabus)

eekly Curriculum of the LaboratoryW

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

Grading Scheme Grading chart				
Group	**Grade**	Appreciation	**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** – File	Deposit (in (processing	(45-49)	More work required but credit awarded
	F – Fail	Failure	(0-44)	Considerable amount of work required

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MODULE DESCRIPTION FORM

Course Description Form

Module Information Course Information					
Module Title	Soil principles			**Module Delivery**	
Module Type	support			☒ **Theory** ☒ **Reading** ☐**Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	USAGHL1106				
ECTS Credits	6				
SWL (hr/sem)	150				
Module Level	1		**Semester of Delivery**	1	
Administering Department	Horticulture and engineering Gardens		**College**	College of Agriculture	
Module Leader	Ghasan Zad Mreef		**email**	ghasan.zaid.m@uosamarra.edu.iq	
Module Leader's Acad. Title	teacher		**Module Leader's Qualification**	Master Degree	
Module Tutor	Atyaf Mahmood shoker		**email**	atyaf.m@uosamarra.edu.iq	
Peer Reviewer Name			**email**		
Scientific Committee Approval Date	5 / 11 / 2024		**Version Number**	6	

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

جامعة سامراء كلية الزراعة
قسم البستنة و هندسة الحدائق

Module Aims, Learning Outcomes and Indicative Contents Course objectives, learning outcomes and instructional contents	
Module Objectives **Course Objectives**	**The main goal of studying soil principles is:** 1- Identify the concept of soil and its components. 2- Identify the parts of the horizons and layers of the soil. 3- Identify the characteristics of the soil and its relationship with plant production. 4- Identify the types of soil to consider it as a medium for plant growth. 5- Identify the contents of the soil in terms of decomposed organic and mineral substances. 6- Identify the type of microorganisms that inhabit the soil. 7- Identify soil formation factors. 8- Identify the classification of soil construction. .Identify the biological classification of soil water -9
Module Learning Outcomes **Learning outcomes of the course**	Understanding the basics of soil components: The student's ability to -12 recognize the basic components of soil. Ability to collect data on soil layers. -13 Use the optimal medium of soil types to give optimal plant production. -14 The ability to self-learn and acquire new skills in the field of biological -15 classification of soil water and plant benefit from it or not. .low up on recent developments in soil scienceFol -16
Indicative Contents **Indicative Contents**	Guidance content includes: 1- Understand the concepts of soil and its components. rs Understanding the horizons, layers, characteristics and types of soil and the facto -2 .affecting it

Learning and Teaching Strategies Learning and Teaching Strategies	
Strategies	1- Active learning in soil principles is an educational and diagnostic method based on the active participation of students in the education process so that the student is the focus of the educational process. 2- Self-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 themselves. 3- Developing academic education in accordance with quality standards in higher education, which enable colleges and universities to produce outputs that are able to produce and excel in the labor market. solve Teaching the student practical applications and developing thinking skills to - 4 .emerging problems

Student Workload (SWL) The student's academic load is calculated for 15 weeks			
Structured SWL (h/sem)	93	**Structured SWL (h/w)** Regular student load per week	6

Regular academic load of the student during the semester			
Unstructured SWL (h/sem) Irregular academic load of the student during the semester	57	**Unstructured SWL (h/w)** Irregular student academic load per week	
Total SWL (h/sem) The student's total academic load during the semester	**150**		

Module Evaluation
Course Evaluation

		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	6	10% (5)	2-3-5-6-9-11	2-4
	Assignments	3	10% (4)	3-5-8	3-6
	Projects / Lab.	8	10% (4)	1-2-4-5-6-9-10-12	2-3-5
	Report	5	10 %(4)	2-4-5-8-9	1-6
Summative assessment	Midterm Exam				
	Final Exam	3 hours	50% (50)		
Total assessment			100% (100)		

Delivery Plan (Weekly Syllabus)
Theoretical Weekly Curriculum

	Material Covered
Week 1	general soil Definitions and concepts of
Week 2	opment of soilsEmergence and devel
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	soil Colloids and chemical properties of
Week 10	Organic colloids

Week 11	Biological properties of the soil
Week 12	Methods of measuring and the importance of soil acidity
Week 13	Positive ion exchange capacity in soil
Week 14	The main groups of soil biology
Week 15	exam

Delivery Plan (Weekly Lab. Syllabus) Weekly Curriculum of the Laboratory	
	Material Covered
Week 1	(immature, mature, antiquated ‹of the main components of the soil (media Presentation
Week 2	lsPresentation of the processes that led to the formation of soi
Week 3	Measurement of physical and chemical properties of soil
Week 4	Training on the classification of soil horizons
Week 5	Measurement of soil temperature and moisture
Week 6	Soil Water Classification Training
Week 7	ic colloids of soilTraining in measuring organ
Week 8	Training on the classification of Hungarian organisms in soil
Week 9	Training on methods of measuring and the importance of soil acidity
Week 10	Training to understand the amplitude of positive ion exchange in the soil
Week 11	Soil Air Quality Inspection Training
Week 12	(Training on soil water constants (field capacity, wilting point, hydroscopic coefficient
Week 13	Understanding soil tissue varieties
Week 14	Measurement of soil organic content
Week 15	el of mineral substances present in the soilMeasuring the lev

Learning and Teaching Resources Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	Methodological book: Principles of Soil Science Ani-Prof. Abdullah Najm Al	
Recommended Texts	Fundamentals of Soil Science: Authorship Dr. Falah Abu Nuqta	
Websites		

Grading Scheme Grading chart				
Group	**Grade**	Appreciation	**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** – File	Deposit (in (processing	(45-49)	More work required but credit awarded
	F – Fail	Failure	(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

Course Description Form

Module Information Course Information					
Module Title	Computer			**Module Delivery**	
Module Type	Basic			☒ **Theory** ☒ **Reading** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	USAGHL1112				
ECTS Credits	3				
SWL (hr/sem)	75				
Module Level	1		**Semester of Delivery**	1	
Administering Department	Holticulture and land escaping		**College**	College of Agriculture	
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	/ 11 / 20245		**Version Number**	2	

جامعة سامراء كلية الزراعة
قسم البستنة وهندسة الحدائق

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

Module Aims, Learning Outcomes and Indicative Contents onal contentsCourse objectives, learning outcomes and instructi	
Module Objectives **Course Objectives**	**The main objective of computer study is:** 1- Identify the concepts of computers, programs and their components. 2- Identify the computer parts, and the input and output units in the computer. 3- Identify memory types, core CPU components, and computer ports. 4- Identify the GUI: operating system; basics of common operating systems. 5- Learn about the word processing program: basics of word processing; opening and closing documents: (text creation and processing; text formatting; table handling; spell checking). 6- Learn about the presentation program; the basics of presentation programs; creating presentations; preparing and presenting slides: slide show. 7- Learning about the Internet and web browsers: the basics of computer networks; LAN and WAN networks; the concept of the Internet and its applications, Internet connectivity. 8- Identify communications and e-mail: (basics of e-mail; obtaining an e-mail account; sending and receiving e-mails). troubleshooting: Identify and solve common hardware and Computer -9 .software problems faced by computer users
Module Learning Outcomes **Learning outcomes of the course**	Understanding the basics of computers: the student's ability to identify -17 computer components and basic operating systems. Proficiency in the use of office software such as (PowerPoint, Excel, word) -18 Microsoft Office Ability to collect, organize and analyze data using computer tools. -19 Use online communication and collaboration tools effectively. -20 Ability to self-learn and acquire new skills in the field of information -21 technology. .Follow up on recent developments in computer technology -22
Indicative Contents **Indicative Contents**	Guidance content includes: 1- Understand the concepts of computers, programs and their components. .Understand the Internet, web browsers and the basics of computer networks -2

Learning and Teaching Strategies Learning and Teaching Strategies	
Strategies	1- Active learning in computer is an educational method based on the active participation of students in the education process so that the student is the focus of the educational process. 2- Self-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 themselves. 3- Developing academic education in accordance with quality standards in higher

	education, which enable colleges and universities to produce outputs that are able to produce and excel in the labor market. e student practical applications and developing thinking skills to solve Teaching th - 4 .emerging problems

Student Workload (SWL) The student's academic load is calculated for 15 weeks			
Structured SWL (h/sem) Regular academic load of the student during the semester	48	**Structured SWL (h/w)** Regular student load per week	3
Unstructured SWL (h/sem) Irregular academic load of the student during the semester	27	**Unstructured SWL (h/w)** Irregular student academic load per week	
Total SWL (h/sem) oad The student's total academic l during the semester	**75**		

Module Evaluation Course Evaluation					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	5	5% (5)		
	Assignments	2 hours	5% (5)		
	Projects / Lab.				
	Report	2	10 %(10)		
Summative assessment	**Midterm Exam**	2 hours	20% (20)		
	Final Exam	3 hours	50% (50)		
Total assessment			100% (100)		

Delivery Plan (Weekly Syllabus) Theoretical Weekly Curriculum	
	Material Covered
Week 1	Introduction to Computer
Week 2	(input units, output units, types of memory) Computer parts

Week 3	(CPU, PC ports, PC(features and types
Week 4	Operating system (GUI: operating system, basics of common operating systems; user interface, use of .(mouse techniques: use of common icons
Week 5	e techniques: use of common icons, status bar, use menu and menu selection, concept of Use mous .folders and directories, opening and closing various windows: creating shortcuts
Week 6	creating and :Word processing: the basics of word processing; opening and closing documents ؛processing text
Week 7	a Word Format text; Work with table: check spelling, language and synonyms setting; print document.
Week 8	؛Spreadsheet: spreadsheet basics, working with cells, formulas and functions
Week 9	.spreadsheet Edit spreadsheet, print
Week 10	؛Presentation software: basics of presentation software; creating presentations
Week 11	Preparing and presenting slides: Slide show, take hard copies of presentations/prints
Week 12	and LAN ؛damentals of Computer NetworksIntroduction to the Internet and Web Browsers: Fun WAN Networks; Internet Concept and Applications; Internet Connectivity, World Wide Web; Web .address IP :Domain Name :URL browsers. Search Engines: Understand
Week 13	an email account; sending and receiving emails; Communications and email: email basics; getting .accessing sent emails; using emails; collaborating on documents
Week 14	Computer troubleshooting: Identify and resolve common hardware and software problems faced by .chniques and tools for diagnosing and resolving problemscomputer users. Basic troubleshooting te
Week 15	exam

Delivery Plan (Weekly Lab. Syllabus)

Weekly Curriculum of the Laboratory

	Material Covered
Week 1	(Display of computer parts (input units, output units, types of memory
Week 2	View memory types
Week 3	View CPU, PC ports
Week 4	Training on the use of the GUI for the operating system
Week 5	Mouse Training
Week 6	Training on the use of the menu, menu selection, the concept of folders, opening and closing different .windows
Week 7	Training in the use of word processing software: the basics of word processing; opening and closing .documents: creating and manipulating text
Week 8	. Word document. Table training: spell checking, language and synonyms setting; printing a
Week 9	.Spreadsheet training: spreadsheet basics, cell handling, formulas and functions
Week 10	.Training in editing the spreadsheet, printing the spreadsheet
Week 11	؛Presentation software training: the basics of presentation software; creating presentations
Week 12	Slide preparation and presentation training: slide presentation, taking hard copies of .presentations/prints
Week 13	Training in the use of web browsers: basics of computer networks; the concept of the Internet and its .nectivity, the World Wide Web; web browsers. Search enginesapplications, Internet con
Week 14	Communication and email training: the basics of email; getting an email account; sending and .receiving emails
Week 15	dware and software problems Computer troubleshooting training: Identify and resolve common har .faced by computer users

Learning and Teaching Resources Learning and Teaching Resources		
	Text	**Available in the Library?**
Required Texts	Methodological book: Computer Basics and Office Applications Assoc. Prof. Ziad Mohamed Abboud Prof. Ghassan Hamid Abdul majeed Assoc. Prof. 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**	Appreciation	**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** – File	Deposit (in (ingprocess	(45-49)	More work required but credit awarded
	F – Fail	Failure	(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

Course Description Form

Module Information Course Information			
Module Title	Engineering Drawing		Module Delivery
Module Type	Core		☐Theory ☐ Reading ☐ Lab ☐ Tutorial ☒Practical ☐ Seminar
Module Code	USAGHL1103		
ECTS Credits	4		
SWL (hr/sem)	100		
Module Level	1	Semester of Delivery	1
Administering Department	Holticulture and land Escape	College	College of Agriculture
Module Leader	Qais Abd El , Amir Mahdi	email	@uotechnology.edu.iq50007
Module Leader's Acad. Title	Assistant Professor	Module Leader's Qualification	Doctor
Module Tutor		email	
Peer Reviewer Name		email	
Scientific Committee Approval Date	/11/20245	Version Number	3

Relation with other Modules tsRelationship with other subjec			
Prerequisite module	No	Semester	
Co-requisites module	No	Semester	

Module Aims, Learning Outcomes and Indicative Contents Course objectives, learning outcomes and instructional contents	
Module Objectives **Course Objectives**	**Expand the mental ability to imagine geometric shapes. .10** **Adjust the practical aspects of the course through laboratory sessions. .11** **Introducing students to engineering designs and their importance in manufacturing products. .12** **Introduce students to the basics of engineering drawing. .13** **To enable students to understand the elements of three-dimensional visualization. .14** **Introduce students to technical graphics techniques so that design ideas can be communicated and produced. .15** **Introduce students to visual and written standard requirements related to industry. .16** **To understand and interpret any form of engineering drawings. .17** **.To draw an object from different perspective perspectives .18**
Module Learning Outcomes **Learning outcomes of the course**	**Ability to read and analyze design maps. .9** **The ability to represent engineering designs and transfer them into reality. .10** **Students should be able to understand the description of any design. .11** **Learn and learn about common drawing symbols. .12** **Learn about the development of basic engineering models. .13** **Students will be able to produce working drawings according to industry requirements. .14** **Students will be able to draw the required scenes for assembly drawings that illustrate all the details. .15** **Students will be able to apply the principles of technical drawing to .pplicationsmany engineering a .16**
Indicative Contents **Indicative Contents**	Guidance content includes: Part A – Introduction to Graphic Styles Fonts, font, paper types and tools Part B – Drawing techniques **Identification of drawing papers**, drawing by hand, drawing with tools Part C – Engineering operation and drawing applications Part D – **spell projection applications Projection techniques and**

Learning and Teaching Strategies Learning and Teaching Strategies	
Strategies	**.7 Speed and accuracy of decision-making.** **.8 Provide a detailed explanation in the chapter on the topic.** **.9 Provide a sufficient illustration on the board with the help of a projector.** **.10 Make lecture periods interactive and integrate them with practical work.** **.11 Educational websites.** **.12 Give students classroom work during the lecture period** .13 **.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) Regular academic load of the student during the semester	**63**	Structured SWL (h/w) Regular student load per week	**4**
Unstructured SWL (h/sem) Irregular academic load of the student during the semester	**37**	Unstructured SWL (h/w) Irregular student academic load per week	
Total SWL (h/sem) The student's total academic load terduring the semes	**100**		

Module Evaluation Course Evaluation					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**	5	10% (10)	2-4-6-8-10	1-4
	Assignments	5	10% (10)	2-5-6-11-12	2-5
	Projects / Lab.	4	10% (10)	3-5-7-10	5-6
	Report	4	10% (10)	3-7-11-13	3
Summative assessment	**Midterm Exam**	2 hours	10% (10)		
	Final Exam	3 hours	50% (50)		
Total assessment			100% (100Marks)		

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	
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 Curriculum of the Laboratory	
	Material Covered
Week 1	**Introduction to engineering drawing and tools to be provided**
Week 2	**Types of lines, geometric shapes and their features**
Week 3	**nitialize the artboard, how to start with engineering drawingI**

Week 4	**1-Engineering Operations**
Week 5	**2-Engineering Operations**
Week 6	**3-Engineering Operations**
Week 7	**Comprehensive exercises for engineering operations**
Week 8	**Projection theory**
Week 9	**Projections1**
Week 10	**Projections2**
Week 11	**Dimensions**
Week 12	**Additional exercises**
Week 13	**1-Cut Projections**
Week 14	**2-Cut Projections**
Week 15	**Holographic drawing**

Learning and Teaching Resources

Learning and Teaching Resources

	Text	Available in the Library?
Required Texts	The engineering drawing of the author (Abdul Rasoul Al-Khafaf)	Yes
Recommended Texts		No
Websites		

Grading Scheme

Grading chart

Group	Grade	Appreciation	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** – File	Deposit (in (processing	(45-49)	More work required but credit awarded
	F – Fail	Failure	(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

Course Description Form

Module Information Course Information					
Module Title	**Principles of Food Industries**			**Module Delivery**	
Module Type	**erMast** Core			☒ **Theory** ☒ **Reading** ☐ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	USAGHL1107				
ECTS Credits	**5**				
SWL (hr/sem)	**125**				
Module Level	1		**Semester of Delivery**	1	
Administering Department	Department of Horticulture and Garden Engineering		**College**	ty of AgricultureFacul	
Module Leader	Baraa Abdul salam Abdul hamid		**email**	baraa.a@uosamarra.edu.iq	
Module Leader's Acad. Title	Assistant Lecturer		**Module Leader's Qualification**	Master	
Module Tutor			**email**		
Peer Reviewer Name	Abeer Majeed Shaker		**email**	abeer.maj.sha@uosamarra.edu.iq	
Scientific Committee Approval Date	5/ 11 / 2024		**Version Number**	7	

Relation with other Modules tsRelationship with other subjec			
Prerequisite module	No	**Semester**	
Co-requisites module	No	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents Course objectives, learning outcomes and instructional contents	
Module Objectives **Course Objectives**	.7 Learn the basics in the food industry and a general idea of the basic principles of food preservation. .8 Learn about the composition of food in general .9 Identify preservation methods and innovative ways to extend the shelf life of food and reduce the difference between demand and supply of the product in the markets. .10 Learn about the types of industries that can be provided in Iraq within the local product and its investment .11 Raising awareness of job opportunities in the field of food processing and investment .12 economy in the country by producing a variety of food Work to improve the items, investing surplus crops and reducing imports.
Module Learning Outcomes **Learning outcomes of the course**	.7 The student becomes aware of the quality of food and its impact on health .8 Be able to process food and produce new types of industries that will improve the health and economy of the country alike .9 The student learns about the ways in which he can deal with crops during planting, harvesting and storage to maintain the product with the best quality and the least crop losses .10 Be able to use advanced devices and tools in different industries in food with the best quality and the least possible losses .11 They should be canning and packaging and its impact on food and marketing at the same time .12 to perform laboratory, chemical and quality control tests of food Be able
Indicative Contents Indicative Contents	.2

Learning and Teaching Strategies Learning and Teaching Strategies	
Strategies	.7 Effective active education between the student and the teacher and the adoption of brainstorming by asking questions and providing information .8 Participation of the student in analyzing the results and conclusions to have a deeper understanding of the scientific material .9 Doing various activities such as making some food themselves such as pastries, colors, etc. .10 Assign them research or homework to research and discuss a specific product

	or manufacturing method 11. Visit some factories or laboratories that allow students to enter so that the application is practical and benefit from the experience of workers 12. Assigning them to various tasks that enhance their information, such as conducting a process of drying food or canning and following up on the quality of the product

Student Workload (SWL)			
s calculated for 15 weeksThe student's academic load i			
Structured SWL (h/sem) Regular academic load of the student during the semester	75	**Structured SWL (h/w)** Regular student load per week	5
Unstructured SWL (h/sem) Irregular academic load of the student during the semester	50	**Unstructured SWL (h/w)** Irregular student academic load per week	
Total SWL (h/sem) The student's total academic load during the semester	**125**		

Module Evaluation Course Evaluation					
		Time/Number	**Weight (Marks)**	**Week Due**	**Relevant Learning Outcome**
Formative assessment	**Quizzes**		10 % (5)	2-3-4-6-8-9-10-11	2-5
	Assignments				
	Projects / Lab.		10 % (5)	2-4-6-8-10	ALL
	Report		10 % (5)	4-5-9-11-13	1-4
Summative assessment	**Midterm Exam**		10 % (5)	3-5-6-9-11-13	ALL
	Final Exam		50 % (50)		
Total assessment			100% (100)		

Delivery Plan (Weekly Syllabus) Theoretical Weekly Curriculum	
	Material Covered
Week 1	An introduction to the science of food processing and how it arose
Week 2	Food Ingredients
Week 3	carbohydrates -proteins -Water
Week 4	minerals and fiber -vitamins - Fats
Week 5	(Food preservation methods (food and the best way to preserve it
Week 6	Cryopreservation and freezing
Week 7	Canning preservation
Week 8	(industrial -Preservation by drying (natural
Week 9	ng and picklingPreservation by salti
Week 10	Sugar preservation and jam manufacturing
Week 11	Identify the types of industries in Iraq
Week 12	Causes of food spoilage and spoilage
Week 13	Food processing and its impact on nutritional value and food quality
Week 14	ared foods and their pros and consPrep
Week 15	Final 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) oryWeekly Curriculum of the Laborat	
	Material Covered
Week 1	Learn about the basics of food processing, devices and tools used in the laboratory
Week 2	The method of preserving food by refrigeration and freezing, its scientific bases and the type of s wayfood that is preserved in thi

Week 3	Food preservation by drying and measuring the moisture content of food
Week 4	Extraction of fat from food
Week 5	Determination of protein percentage
Week 6	Fruit juice industry
Week 7	Manufacture of jams
Week 8	Bakery industry
Week 9	lly & Marmillard ManufacturingJe
Week 10	Manufacture of ketchup and tomato paste
Week 11	Food packaging materials
Week 12	Pigments and pigments
Week 13	Preservatives and their uses
Week 14	Methods of preparation and concentration of solutions
Week 15	inal ExamF

Learning and Teaching Resources Learning and Teaching Resources		
	Text	Available in the Library?
Required Texts	Food Industry Principles Book Aswad-Dr. Majed Bashir Al	
Recommended Texts	Food Chemistry Book Dr. Kamel Basil Dalali	No
Websites	:(Food and Agriculture Organization of the United Nations (FAO https://www.fao.org/home/ar Google scholar	

Grading Scheme Grading chart				
Group	**Grade**	Appreciation	**Marks %**	**Definition**
Success Group (50 - 100)	**A** - Excellent	egeprivil	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** – File	Deposit (in (processing	(45-49)	More work required but credit awarded
	F – Fail	Failure	(0-44)	Considerable amount of work required

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MODULE DESCRIPTION FORM

Course Description Form

Module Information Course Information					
Module Title	**General plant**			**Module Delivery**	
Module Type	Core			☒ **Theory** ☒ **Reading** ☒ **Lab** ☐ **Tutorial** ☐ **Practical** ☐ **Seminar**	
Module Code	USAGHL1104				
ECTS Credits	**6**				
SWL (hr/sem)	**150**				
Module Level	1		**Semester of Delivery**	1	
Administering Department	Department of Horticulture and Garden Engineering		**College**	Faculty of Agriculture	
Module Leader	Dr. Mona Ayed Youssef		**email**	muna.a.y@uosamarra.edu.iq	
Module Leader's Acad. Title	Lecturer Doctor		**Module Leader's Qualification**	Doctor	
Module Tutor			**email**		
Peer Reviewer Name	Ali Ahmed Ali		**email**	ali.a@uosamarra.edu.iq	
Scientific Committee Approval Date	/ 11 / 20245		**Version Number**	4	

Relation with other Modules Relationship with other subjects			
Prerequisite module	There isn't any	**Semester**	
Co-requisites module	There isn't any	**Semester**	

Module Aims, Learning Outcomes and Indicative Contents Course objectives, learning outcomes and instructional contents	
Module Objectives **Course Objectives**	1- Introducing the student to botany, its importance and branches 2- Identify the plant cell and its parts 3- Distinguish between types of plant cell division 4- Distinguish between plant tissue types ch partIdentify the parts of the plant and the importance of ea -5
Module Learning Outcomes **Learning outcomes of the course**	Recognize the principles of different plant sciences; -8 genetics, physiology, ecology, morphology, taxonomy, etc. 2- Identify the living and non-living contents of the cell, and the process of cell division 3- Know the difference between plant tissue types, their importance and function in plants 4- Students can 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- Know the main parts of the flower and the types of pollination Distinguish between types of fruits and seeds -7
Indicative Contents **Indicative Contents**	Venus .6 Papers .7 Leg .8 Histology .9 Meristem cells .10

Learning and Teaching Strategies Learning and Teaching Strategies	
Strategies	The strategy of lecture, discussion, brainstorming and cooperative education will be adopted in delivering this material and encouraging students' participation in the lab, ng and expanding their critical thinking skills. This will while at the same time improvi be achieved through classrooms and interactive lessons and by looking at the types of .simple experiments that involve some sampling activities that interest students

Student Workload (SWL) tudent's academic load is calculated for 15 weeksThe s			
Structured SWL (h/sem) Regular academic load of the student during the semester	93	**Structured SWL (h/w)** Regular student load per week	6
Unstructured SWL (h/sem) Irregular academic load of the student ng the semesterduri	57	**Unstructured SWL (h/w)** Irregular student academic load per week	5.1
Total SWL (h/sem) The student's total academic load during the semester	**150**		

Module Evaluation Course Evaluation					
		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	and #129, #8LO #
Summative assessment	Midterm Exam	clock	10% (10)	7	LO #1 - #7
	Final Exam	hours 2	50% (50)	16	Everyone
Total assessment			100% (100)		

Delivery Plan (Weekly Syllabus) Theoretical Weekly Curriculum	
	Material Covered
Week 1	ranchesDefinition of botany, its importance and b
Week 2	Plant cell
Week 3	Cell division
Week 4	Definition of plant tissues and their types
Week 5	Structural Tissues
Week 6	Types of permanent tissue
Week 7	Composite tissue
Week 8	Root and its types
Week 9	Leg and its types
Week 10	the stems by function and the difference between the stem and the root Split
Week 11	Leaf composition, types and arrangement of leaves on the stem
Week 12	Flower parts
Week 13	Types of pollination
Week 14	Composition of fruits and their types
Week 15	d and its compositionSee
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 Curriculum of the Laboratory	
	Material Covered
Week 1	Learn about laboratory instruments
Week 2	living contents of the cell-The living and non
Week 3	Direct and indirect cell division
Week 4	Permanent tissue, parenchyma anatomy
Week 5	The difference between structural tissue and permanent tissue
Week 6	Core tissues
Week 7	Vascular tissues and vascular bundles and their types
Week 8	Root anatomy and internal structure
Week 9	and leg morphology -Leg
Week 10	Anatomy of the stem and its internal structure
Week 11	Anatomy of the paper
Week 12	Simple leaves, Composite leaves
Week 13	Anatomy of flower parts
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	. Egyptian Library. Cairo-Anglo .(1992) .Mujahid, Ahmed Muhammad General botany	No
Recommended Texts	Ministry of Agriculture. Department of Agricultural Education. Egypt (2021) Agricultural Botany Book. Written by John Percival. Hassan, Abbas and Tawfiq Abu Tira and Bayoumi Shield. (2021). Concepts of botany .Arab Press Agency	No
Websites	https://bookapa.com/e-books/-7102.html	

Grading Scheme Grading chart				
Group	**Grade**	Appreciation	**Marks %**	**Definition**
Success Group (50 - 100)	**A** - Excellent	privilege	90 - 100	Outstanding Performance
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	C - Good	Good	70 - 79	Sound work with notable errors
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