Course Description Form

1. Course Name:

Ornamental plant 1

2. Course Code:

ORPL306

3. Semester / Year:

FaII Semester /Academic Year 2024/2025

4. Description Preparation Date:

1-9-2024

5. Available Attendance Forms:

In Presence+ Online

6. Number of Credit Hours (Total) / Number of Units (Total)

1 hours Theoretical
3 hours practical /2.5 unit

7. Course administrator's name (mention all, if more than one name)

Name:.Prof.Dr. Asmaa Mohammed Adil
, Lecturer .Eelaf Almayahi
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8. Course Objectives

Theoretical:	Practical:
1)Identify different categories of ornamental plants. 2)Understand plant description and visual differentiation of leaves, stems, roots, and flowers. 3)Develop the necessary skills to acquire and apply methods of ornamental plant propagation. 4)Familiarize with all agricultural processes related to ornamental plants and execute them effectively.	

9. Teaching and Learning Strategies

Theoretical:	Practical:
▪ Interactive lectures ▪ Brainstorming sessions	▪ Interactive lecture ▪ Discussion, dialogue and brainstorming

· Dialogue and discussion · Self-directed learning	· Set reports · Conduct daily tests and · Monthly checks · Field training · Field projects

10. Course Structure

Week	Hours	Required Learning Outcomes	Unit or subject name	Learning method	Evaluation method
1	1h	A1: Definition of ornamental horticulture and its benefits, Introduction to it, the evolution of ornamental plants, their importance, and their relationship with other sciences. B1: Possesses the practical and conceptual knowledge and skills that aid in understanding ornamental plants. C2: Engages with community members and works on raising their awareness about the importance of cultivating ornamental plants as green cover.	Theoretical: Ornamental horticulture plants	Interactive lecturing, brainstorming, and dialogue style.	Exams Reports Discussion and questions
Practic	3h	C3: Knowledge of plant classifications and their identification.			
2	1h	A4: Botanical and horticultural classification - studying environmental factors and their physiological effects on the growth and flowering of ornamental plants.	Classification of ornamental plants	Lectures And audio means And reports And conduct experiments	Exams Reports Discussion and questions
	3h	C3: Definition of the	. Training on using	Lectures	Exams

		devices used to measure light intensity to the student and their method of use, experiments such as light and radiation, types of spectra, and their impact on the growth of ornamental plants.	the device and how to measure with it, and using colored covers in experiments for plant growth.	And audio means And reports And conduct experiments	Reports Discussion and questions
3	1h	Roses: A scientific study of roses enables individuals to understand the structure, growth processes, and propagation of the flower. It may also encompass medical insights, agricultural uses, and cosmetic applications of this plant. Carnation : Studying plant can yield learning outcomes related to the medicinal and aromatic properties of the plant, as well as analyzing its uses in cooking and traditional medicine. Gladiolus: Learning about gladiolus can provide a deep understanding of the plant's structure and biological behavior, potentially leading to applications in agricultural and medical research. Dahlias: Studying dahlias may open avenues for understanding the	Theoretical: Unsaturated Hydrocarbons (alkenes) practical: Purification of liquid organic compounds by simple distillation	Lectures And audio means And reports And conduct experiments	Exams Reports Discussion and questions 

		plant's composition, medicinal and aromatic properties, and investigating its health and beauty benefits. Gerbera: Learning about gerberas may include a deep understanding of the biological diversity and medical and agricultural uses of this plant. Pitcher Plant: Learning about pitcher plants may involve understanding its environmental adaptations and effects on the surrounding ecosystem. Lavender: A study of lavender can provide knowledge about the aromatic and medicinal properties of this plant, which can be used in fields such as perfumery and natural remedies. In general, learning outcomes for these plants may include a deep understanding of their behavior and characteristics, as well as their uses in multiple fields such as medicine, environment, agriculture, and beauty.			
	3h	C3: Introducing the stud to the shrub rose, a comprehensive study of	Shrub rose	Interactive lecture, brainstorming,	Exams Reports Discussion and

		successful rose species a varieties in Iraq, and professional translation rose pruning.		dialogue and discussion, field training, self-directed learning.	questions
4	1h	A1: Studying the production of flowering pot plants - Snapdragons Primulas - Deep understanding of farmin processes: Studying the production of flowering plants can aid in understanding the appropriate farming processes for these varieties, including soil requirements, irrigation, and nutrition. C2: Developing care and maintenance skills: Students can learn how t properly care for and maintain flowering plant to ensure their healthy growth and flourishing. Understanding factors affecting productivity: T study can reveal factors influencing the productivity of flowering pot plants, such as environmental condition fertilization, and marketing. B2: Studying flowering plant production can contribute to understanding the geneti diversity of these species and how to genetically improve them to obtain more desired traits. Instructions for flowerin plant production may include using sustainable	Theoretical: Reactions of alkenes and types of dienes Practical: Recrystallization + Scientific visit	Lectures And audio means And reports And conduct experiments	Exams Reports Discussion and questions

		production techniques th conserve natural resourc and reduce negative environmental impacts.			
	3h	Studying the practical aspect of flowering plant production...			
5	1h	C2: Pelargonium Plant Euphorbia pulcherrim	Production of flowering potted plants	Lectures And audio means And reports And conduct experiments	Exams Reports Discussion and questions
	3h	A2: Studying the practical aspect of flowering plant production...	Production of flowering potted plants	Lectures And audio means And reports And conduct experiments	Exams Reports Discussion and questions
6	1h	A1: The study of herbaceous plants, their types, cultivation, service operations, and flower succession can provide various learning outcomes, including: In-depth understanding of herbaceous plant types: Learning about herbaceous plant types can provide a comprehensive understanding of their biological diversity and scientific classification, including knowledge of different species and their specifications. Development of herbaceous plant	Production of container plants	Lectures And audio means And reports And conduct experiments	Exams Reports Discussion and questions

		cultivation skills: Learning about herbaceous plant cultivation can help acquire practical skills in growing these plants, including selecting the appropriate site, preparing the soil, and providing subsequent care. Modern techniques and innovation: Studying herbaceous plants may provide a platform to explore modern techniques such as genetic analysis and genetic improvement to enhance plant traits and increase productivity.			
	3h	Service operations for herbaceous plants: Studying service operations for herbaceous plants can provide knowledge on how to care for plants and provide necessary support to achieve healthy growth and high productivity. Analysis of flower succession: Studying the succession of herbaceous plant flowers can provide a deep understanding of patterns and timing of flower emergence and its impact on pollination processes and productivity.		Lectures And audio means And reports And conduct experiments	

		Agricultural and environmental applications: The knowledge gained from studying herbaceous plants can contribute to the development of sustainable agricultural techniques and the preservation of biological and environmental diversity.			
7	1h	A1: Herbaceous plants and their classification, studying summer and winter herbaceous flowers.	Midterm exam 1 based on the lectures provided above, with the continuation of the practical material.	Lectures And audio means And reports And conduct experiments	Exams Reports Discussion and questions
	3h	C1: Students can understand the biological diversity of herbaceous plants, their classification, and familiarize themselves with the characteristics of each type, helping them to identify herbaceous species and understand their traits. C2: Students can study the timing and method of appearance of summer and winter herbaceous flowers, understanding their patterns and their impact on plant growth and productivity. C3: Students can apply the concepts and knowledge acquired in theoretical classes through practical	Continuation of practical material	Lectures And audio means And reports And conduct experiments	Exams Reports Discussion and questions

		activities such as planting and caring for herbaceous plants. C4: Students can study the effects of environmental and climatic factors on the growth and development of herbaceous plants and their flowers, and how to deal with these factors to achieve optimal productivity. They can also develop their skills in monitoring and observing changes in herbaceous plants and their flowers over time, understanding their interaction with their surrounding conditions. C5: Students can apply the concepts and knowledge gained in theoretical lessons on the ground through practical work in planting, caring for herbaceous plants, and studying their flowers.			
8	1h	Bulbs plant flowers	Flowering bulbs	Lectures And audio means And reports And conduct experiments	Exams Reports Discussion and questions

	3h	A1: Definition, classification, identification of different types, and cultivation of flowering perennials.	Flowering bulbs		
9	1h	A1: Bulbs perennials	Bulbs perennials	Lectures And audio means And reports And conduct experiments	Exams Reports Discussion and questions
	3h	Types, botanical description, ornamental value, and propagation methods.	Bulbs perennials	Lectures And audio means And reports And conduct experiments	Exams Reports Discussion and questions
10	1h	A1: Winter perennials bulbs	Winter perennials bulbs	Lectures And audio means And reports And conduct experiments	Exams Reports Discussion and questions
	3h	Winter perennials bulbs Types, botanical description, ornamental value, and propagation methods.	Winter perennials bulbs	Lectures And audio means And reports And conduct experiments	Exams Reports Discussion and questions
11	1h	Solving a problem	Field visits	Lectures And audio means And reports And conduct experiments	Exams Reports Discussion and questions
	3h	Field trips to explore			

		various plant species. Field visits to government and private nurseries and public parks.			
12	1h	A1: Perennial herbaceous flowers such as gerberas, violets, and salvias... Studying these perennial flowers can contribute to understanding biological diversity and plant classification, identifying unique characteristics of each species. Studying these flowers can help develop skills in garden coordination and landscape design, using them to enhance beauty and vitality in green spaces. Students can study the impact of these flowers on their surrounding environment and how to maintain environmental balance and sustainable development. Studying these flowers can provide opportunities for scientific research and innovation in areas such as genetic improvement and development of resistant and enhanced varieties.	Perennial herbaceous flowers	Lectures And audio means And reports And conduct experiments	Exams Reports Discussion and questions
13	1h	A1: Indoor landscaping plants: types, suitable	Indoor landscaping plants	Lectures And audio means	Exams Reports Discussion and

		conditions, potted plants, propagation, factors aiding the success of shade-tolerant plants in homes and offices.		And reports And conduct experiments	questions
	3h	C1: The specific growth factors, types, botanical description, ornamental value, physiological problems, and care notes.	Indoor landscaping plants		Reports Discussion and questions
14	1h	A1: Indoor landscaping plants - types, suitable conditions, potted plants, propagation, factors aiding the success of shade-tolerant plants in homes and offices.	Indoor landscaping plants	Lectures And audio means And reports And conduct experiments	Exams Reports Discussion and questions
	3h	C1: A practical lesson in plastic and hoop houses, conducting propagation operations for ornamental and medicinal plants, identifying indoor landscaping plants, and performing vegetative propagation operations. .	Field visits		
15	1h 3h	Exams 2	Exams 2	experiments	Exams

11.Course Evaluation				
t	Evaluation methods	Evaluation date (one week)	Grade	Relative weight %
1	Final theoretical report + theoretical practical reports	Theoretical 15 weeks Practical 1-15 weeks	7theoretical + 6 practical	%
2	Short test 1 Quiz	3 weeks	4theoretical + 2practical	%
3	Midterm exam (theoretical and practical)	9 weeks	10theoretical + 5 practical	%
4	Short test 2 Quiz	12 weeks	4 theoretical +	%

			2 practical	
5	Final practical test	practical exams week	20	20%
6	Final theoretical exam	theoretical exams week	40	40%
			100	100

12.Learning and Teaching Resources

Required textbooks (curricular books, if any)	Al-Jalabi, Talal Mahmoud. (1990). Engineering and Design of Gardens. Mosul University Publications. Iraq.
Main references (sources)	**Al-Baali, Sadiq Abdulghani. (1967). Gardens. Local Administration Press, Baghdad, Iraq.**
Recommended books and references (scientific journals, reports...)	Al-Batal, Nabil and Adnan Al-Sheikh Awad. (2005). Ornamental Plants and Garden Landscaping. Damascus University Publications. Syria. Mahmoud, Mohsen Khalaf and Sami Karim Mohammed Amin. (1989). Ornamentation and Garden Engineering. Iraq. Tuwaijan, Ahmed Mohammed Musa. (1987). Ornamental Plants. Basra University Press. Tuwaijan, Ahmed Mohammed Musa. (1987). Greenhouse Environment. Basra University Press.

Lecturer Name (Theory)
.Prof.Dr. Asmaa Mohammed Adil

Lecturer Name (Practical)

Eelaf Almayahi

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Prof. Dr. Asmaa Mohammed Adil

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Chairman of the scientific committee

Jassim Mohammed Alwan