

Course Description Form Principles of Horticulture

<b>Course Name:</b>					
Principles of Horticulture					
<b>Course Code</b>					
PRIH204					
<b>Semester/Year</b>					
First / 2025					
<b>Date this description was prepared</b>					
15 January 2025					
<b>Available attendance forms</b>					
In Person					
<b>Number of Credit Hours (Total)/ Number of Units (total)</b>					
5 hours (2 theoretical +3practical)/3.5 units					
<b>Name of the course administrator (if more than one name is mentioned)</b>					
Prof. Dr. Nisreen Mohammed Hathal					
<b>Course Objectives</b>					
<ul style="list-style-type: none"> <li>- Introducing students to the concept of horticulture and the botanical classification of horticultural plants as well as horticultural plant families of fruits, vegetables, ornaments and medicinal and aromatic plants.</li> <li>- Learn about the agricultural service operations of horticultural crops and how to establish orchards, farms, gardens and parks.</li> <li>- Knowing how to establish nurseries and take care of fruit and vegetable seedlings, ornaments and internal coordination plants.</li> <li>- Familiarity with the methods of breeding horticultural plants and knowing the best methods in breeding important and economic plants.</li> </ul>					
<b>Teaching and Learning Strategies</b>					
<ul style="list-style-type: none"> <li>- Lecturing with the use of modern presentation methods.</li> <li>- Direct dialogue with students by asking them questions.</li> </ul>					
<b>Course Structure</b>					
<b>Week</b>	<b>Credits</b>	<b>Intended Learning Outcomes</b>	<b>Unit or Topic Name</b>	<b>Learning Method</b>	<b>Evaluation Method</b>
1	2Theoretical	Knowing the history of the emergence of horticulture and its nutritional and economic importance in the Biology of humanity	Principles of Horticulture	Lecture, Discussion, Reports	Quick and Monthly Exams, Class Activity and Reports

2	2Theoretical	Knowledge of the departments of horticultural plants (vegetables, fruits and ornaments )	Principles of Horticulture	Lecture, Discussion ,Reports	Quick and Monthly Exams, Class Activity and Reports
3	2Theoretical	Identify the climatic conditions suitable for the cultivation, growth and production of horticultural plants	Principles of Horticulture	Lecture, Discussion ,Reports	Quick and Monthly Exams, Class Activity and Reports
4	2Theoretical	Identify the most important methods of breeding sexual and vegetable horticultural plants and plant tissue cultivation	Principles of Horticulture	Lecture, Discussion ,Reports	Quick and Monthly Exams, Class Activity and Reports
5	2Theoretical	Learn how to establish specialized nurseries and take care of plants	Principles of Horticulture	Lecture, Discussion ,Reports	Quick and Monthly Exams, Class Activity and Reports
6	Month 1				
7	2Theoretical	Identify the most important agricultural operations and crop service	Principles of Horticulture	Lecture, Discussion ,Reports	Quick and Monthly Exams, Class Activity and Reports
8	2Theoretical	Identify the protected environments, whether greenhouses or greenhouses, and how to produce vegetable and ornamental crops inside them	Principles of Horticulture	Lecture, Discussion ,Reports	Quick and Monthly Exams, Class Activity and Reports
9	2Theoretical	Identifier of plant description of fruit plants and their nutritional, medical and economic importance and methods of propagation and production	Principles of Horticulture	Lecture, Discussion ,Reports	Quick and Monthly Exams, Class Activity and Reports
10	2Theoretical	Knowing the most important strategic crops	Principles of Horticulture	Lecture, Discussion ,Reports	Quick and Monthly Exams, Class Activity and Reports

11	2Theoretical	Some examples of ornamental plants, garden engineering and interior coordination	Principles of Horticulture	Lecture, Discussion, Reports	Quick and Monthly Exams, Class Activity and Reports
12	Second month				
13	2Theoretical	Some examples of cultivation of the most important medicinal and aromatic plants.	Principles of Horticulture	lecture, discussion, reports,	Quick and Monthly Exams, Class Activity and Reports
14	2Theoretical	Knowledge of the most important methods of breeding and improving horticultural plants	Principles of Horticulture	lecture, discussion, reports,	Quick and Monthly Exams, Class Activity and Reports
<b>Practical Part</b>					
Week	Credits	Intended Learning Outcomes	Unit or Topic Name	Learning Method	Evaluation Method
1	3	Introducing fields and horticultural constructions (gardens, orchards, fields, greenhouses and glass houses).	Principles of Horticulture	Lecture, Discussion, Reports	Quick and Monthly Exams, Class Activity and Reports
2	3	Conducting and practicing vegetative reproduction operations (pens, incubation, grafting, installation ..... etc.)	Principles of Horticulture	Lecture, Discussion, Reports	Quick and Monthly Exams, Class Activity and Reports
3	3	Planting various seeds and carrying out seedling operations (sexual reproduction)	Principles of Horticulture	Lecture, Discussion, Reports	Quick and Monthly Exams, Class Activity and Reports
4	3	Establishing nurseries, planting and caring for plants and managing nurseries.	Principles of Horticulture	Lecture, Discussion, Reports	Quick and Monthly Exams, Class Activity and Reports
5	First Month Exam				
6	3	Introducing the method of irrigation and fertilization and	Principles of Horticulture	Lecture, Discussion, Reports	Quick and Monthly Exams, Class

		conducting these operations in the field .			Activity and Reports
7	3	Conducting pruning , layering, slipping, and pest resistance operations of all kinds .	Principles of Horticulture	Lecture, Discussion ,Reports	Quick and Monthly Exams, Class Activity and Reports
8	3	Processes that take place in greenhouses and plastic houses and methods of controlling environmental factors and harnessing them in the production of crops in the off-season .	Principles of Horticulture	Lecture, Discussion ,Reports	Quick and Monthly Exams, Class Activity and Reports
9	3	Practicing harvesting, packing and crop handling.	Principles of Horticulture	Lecture, Discussion ,Reports	Quick and Monthly Exams, Class Activity and Reports
10	3	Visit parks, gardens and orchards to learn about them on the ground.	Principles of Horticulture	Lecture, Discussion ,Reports	Quick and Monthly Exams, Class Activity and Reports
11	3	Examples of palm, citrus, apple and hard core cultivation.	Principles of Horticulture	Lecture, Discussion ,Reports	Quick and Monthly Exams, Class Activity and Reports
12		Second Month Exam			
13	3	Examples of crop production for some families .	Principles of Horticulture	Lecture, Discussion ,Reports	Quick and Monthly Exams, Class Activity and Reports
14	3	Examples of the most important ornamental plants.	Principles of Horticulture	Lecture, Discussion ,Reports	Quick and Monthly Exams, Class Activity and Reports
15					
<b>Course Evaluation</b>					
<ul style="list-style-type: none"> <li>- Quick daily exams (Quizzes) .</li> <li>- Monthly exams ( two or more).</li> <li>- Evaluating the class activity of the students .</li> </ul>					

Evaluating the laboratory activities of students - Assessments on writing scientific reports and homework .	
<b>Learning and Teaching Resources;</b>	
Required textbooks ( methodology if any )	Principles of Horticulture – Faisal Rashid Al Kinani Principles of Horticulture -Dr. Karim Saleh Abdul and Dr.Saad Zaghlol
Key References (Sources)	Fruit production for non-specialized departments in gardening / d. Dr. Ali Al-Douri Adel Al-Rawi - Production of fruits and vegetables Makki Alwan Al-Khafaji, Dr. Faisal Abdulhadi Al-Mukhtar
Recommended supporting books and references (scientific journals, reports)	Iraqi academic journals
E-References, Websites	International Network for information on the subject of the course