Course Description Form Plant Physiology

Course Name:
Plant Physiology
Course Code
PLAP407
Semester / Year
First / 2025
The history of the preparation of this description:
15 January 2025
Available attendance forms
Full-time (theoretical lecture and practical lecture) weekly
Credit Hours / Number of Units (Total)
2 theoretical hours and 3 working hours per week for 14 weeks
Course administrator's name (if more than one name)
Dr. Omar Ali Ahmed Othman Nassif Jassim
Course Objective

1-The student should know what is meant by the science of philosophy and the basic rules of this science 2-Identifying water relations and absorption of water and elements. 3-Studying photosynthesis and breathing and the factors affecting them.	4-Study of hormones and plant growth regulators. 5-Studying the physiology of crops under conditions of stress and the mechanisms of plan bearing them.
Teaching and Learning Strategies	
5 - Explanation and clarification 6- Lecture Method	7. Student Groups 8- Self-learning method
Course Structure	

Theoretical

Week	Credits	Intended Learning Outcomes	Unit or Topic Name	Learning Method	Evaluation Method
1	2	Definition of plant physiology and grammar So the basic science	Plant Physiology	Explanation and presentation of the model and lecture	Exam:
2	2	Colloidal solutions and systems	Plant Physiology	Explanation and presentation of the model and lecture	Exam:
3	2	Water Relations and th Absorption and	Plant Physiology	Explanation and presentation of the model and lecture	Exam:

		Transmission of Water and Nutrients			
4	2	photosynthesis	Plant Physiology	Explanation and presentation of the model and lecture	Exam:
5	2	Respiration	Plant Physiology	Explanation and presentation of the model and lecture	Exam:
6		Month 1	Month 1		
7	2	Metabolism	Plant Physiology	Explanation and presentation of the model and lecture	Exam:
8	2	Nitrogen Biostabilizati	Plant Physiology	Explanation and presentation of the model and lecture	Exam:
9	2	JOURNAL OF PLANT NUTRITION	Plant Physiology	Explanation and presentation of the model and lecture	Exam:
10	2	Growth and Emergence	Plant Physiology	Explanation and presentation of the model and lecture	Exam:
11	2	Physiology of crops un stress	Plant Physiology	Explanation and presentation of the model and lecture	Exam:
12	2	Types of stress, their impact and mechanism to withstand various ty of stress	Plant Physiology	Explanation and presentation of the model and lecture	Exam:
13	2	Second month	Second month		
14	2	Wrapping up	Plant Physiology	Explanation and presentation of the model and lecture	Exam:

Practical Part

Week	Credits	Intended Learning Outcomes	Unit or Topic Name	Learning Method	Method of Evaluation
1	3	Types of solutions and how to prepare them	Plant Physiology	Explanation and presentation of the model and lecture	Exam:

2	3	Effect of different salt concentrations on seed germination	Plant Physiology	Explanation and presentation of the model and lecture	Exam:
3	3	The effect of acidity an alkalinity on the germination and growt of some plants	Plant Physiology	Explanation and presentation of the model and lecture	Exam:
4	3	Understanding how to measure growth	Plant Physiology	Explanation and presentation of the model and lecture	Exam:
5	3	Effect of macronutrient and micronutrients on t growth of some plants	Plant Physiology	Explanation and presentation of the model and lecture	Exam:
6			Month 1		
7		The relationship betwe light interception and Plant growth	Plant Physiology	Explanation and presentation of the model and lecture	Exam:
8	3	Chlorophyll Measurem in Plant	Plant Physiology	Explanation and presentation of the model and lecture	Exam:
9	3	Effect of plant hormon on the growth of some plants	Plant Physiology	Explanation and presentation of the model and lecture	Exam:
10	3	Study of impregnation, osmosis and Diffusion and Plasma	Plant Physiology	Explanation and presentation of the model and lecture	Exam:
11	3	A field visit to the field of the department to identify some physiological phenome	Plant Physiology	Explanation and presentation of the model and lecture	Exam:
12	3	Field visit 2 to the field of the department to identify some physiological phenome	Plant Physiology	Explanation and presentation of the model and lecture	Exam:
13			Second month		
14	3	Wrapping up	Plant Physiology	Explanation and presentation of the model and lecture	Exam:
Course Evaluation					

Daily and monthly tests, reports and student effectiveness during the lecture.	
Learning and Teaching Resources;	
Required textbooks (methodology if any)	Crop Plant Physiology - Ahmed Issa Student - University of Baghdad
Key References (Sources)	Plant abiotic stress- Matthew A. Jenks
Recommended supporting books and references (scientific journals, reports	C/N H. Roldos de la Sovera, Montevideo
E-References, Websites	