

Republic of Iraq

The Ministry of Higher
Education

& Scientific Research

بسم الله الرحمن الرحيم



University: Diyala
College: Agriculture
Department: Horticulture and
landscaping
Stage: Second
Lecturer name: Ahlam A. Hussein
Scientific title: Asst. prof.
Qualification:
Place of work: College of Agriculture

Flow up of implementation celli pass play

Course Instructor	Ahlam Ahmed Hussein				
E-mail	ahlamahussein@uodiyala.edu.iq				
Title	Plant Ecology				
Course Coordinator	vernal				
Course Objective	Identification Students of effect physical factors on plants growth and development				
Course Description	Definition of ecology, development of ecology division of ecology,Ecosystem,Envirnment,Light,Temperacture,Water,Wind,Atmospheric pressure, Fire, Ecological systems, plant environmental, Iraq climate				
Textbook	plant ecology, Kamal Hussein Shaltoot, 2009				
Course Assessments	Theoretical semester tests %	Practical semester tests %	Quizzes %	Final practical test %	Final Exam %
	(25%)	(10%)	(5%)	20%	(40%)
General Notes	Final grade 100%				

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the week	the date	Topics Covered	Practical Part	Notes
1		Definition of ecology, development of ecology division of ecology, Ecosystem, Environment	Practical studies of Botanical	
2		Light waves, Types(visible and invisible) wave length of lighting period, light intensity, influence of day length on plants	Characterization	
3		Light waves, Types(visible and invisible) wave length of lighting period, light intensity, influence of day length on plants	The method of taken the samples and its affribute, the natural sequence	
4		The important of lighting on biological activities motive of lowering light waves	Introduction to the methods of light intensity measurement and its instruments	
5		Temperature, temperature flow age, Variation in the temperature gradient, Temperature overlaping. Day degree system. Influence of temperature on plants	Analysis of the effects of light on the Biological activities in Horticulture plants	
6		Effect value of the temperature influence of temperature on plant function . temperature hazard, low or high temperature adaption. Effect of temperature on plant	Investigation on the influences of lighting on the growth, elongation of the horticultural plant	
7		Water as ecological factor for plants, forms of water in the nature and their effects on plants	Introduction to the methods of temperature measurement and its instruments	
8		Plants taxonomy in relation to water, effects of rain on plant spread	Measurement of the levels of temperature during one day and variation in it (the term peratare of the air and the soil during a	
9		Wind, kind of wind. wind mass and fronts, effect of wind on plant	=	
10		Atmospheric pressure. Factors effecting atmospheric pressure. Atmospheric pressure disruption of Air	Studying the influence of the temperature on the different plants	
11		Fire, type of fire, Adaption of plants to the fire and blaze indirect effect of the fire, the beneficial application of fire	Identification of different type of water in the nature and studying the quantities of	
12		Ecological systems, tropical forests, savana, deserts, plains discords forests, Marshes	=	
13		Plant environmental types in Iraq . Mountain, Highland, Al-Jazera and south plain, high and desert	Methods of wind violence measurement and its influence on plants	
14		Iraq climate and its effects on plants	Identification of different ecosystem	
15		Pollution . types of pollution detect ring plants. The role of plant emanating healthy environment	Studying the influence of the pollution in plants	

Teacher's signature
Asst. Prof. Dr. Ahlam Ahmed Hussein
15/1/2025

Dean's signature
Prof. Dr. Raaed Ibrahim Khalil
15/1/2025