

Module(Course Syllabus)Catalogue 2023-2024

College/ Institute	Khabat Technical Institute	
Department	Medicinal Plants Protection -Evening	
Module Name	Plant Ecology	
Module Code	PLE205	
Semester	2	
Credits	6	
Module type	Prerequisite <input type="checkbox"/>	Core <input checked="" type="checkbox"/> Assist. <input type="checkbox"/>
Weekly hours	4	
Weekly hours (Theory)	(1)hr Class	(30)hr Workload
Weekly hours (Practical)	(3)hr Class	(90)hr Workload
Lecturer (Theory)	Nazar Mohammed Samein	
E-Mail& Mobile NO.	Nazar.samen@epu.edu.iq - 07508518361	
Lecturer (Practical)	Hazar zharo	
E-Mail & Mobile NO.	07504611700	

Course Book

<p>Course Description</p>	<p>Ecology is the study of the interactions between organisms and their environment. This course provides a background in the fundamental principles of ecological science, including concepts of population and community ecology, biodiversity, and sustainability. Students will acquire a thorough understanding of the scientific field of ecology.</p> <p>To communicate an overview of environmental concepts related to plants and the response of plants to environmental factors. And its impact on these crops or plants, which are very important concepts in the life of the organism and its response to various organisms Environmental conditions .</p>
<p>Course objectives</p>	<p>The aim of teaching the curriculum: a description of the peripheral environment of the plant and knowledge of the factors through which the study is orphaned .</p>
<p>Student's obligation</p>	<p>Attendance of students in classes is necessary, as non-attendance has negative effect on student's perception. Writing reports particularly in practical lessons as well as to scientific excursion.</p>
<p>Required Learning Materials</p>	<p>Use white board Data show Power point Internet Use parts of plant The lectures are presented in classes to students in different ways including data show, PowerPoint, manual papers and white boards. However, they are presented to student via lecturers' portal in university's website.</p>
<p>Assessment scheme</p>	<p>16% Mid Term (Theory and practical) 4% Quiz 40% Assignment (report, paper, homework, seminar..) 20% final practical 20% final theory</p>
<p>Specific learning outcome:</p>	<p>There are different methods to evaluate students in lessons; involving: 1- Quiz the students or debate the subject to be more</p>

	<p>students included in the discussions.</p> <p>2- Writing reports for most subjects especially student projects to be ready for seminars.</p> <p>Testing students is required seasonally as well as final exam of year.</p>
--	--

Course References:	<p>1 -Andrew.R,W.and Julie M Vackson (2006).Environmental Science.Longman group limited.London.UK.</p> <p>2- PrasadaRao.G.S.L.H.V.(2008).Agricultural Meteorology.Prentice-Hall ,Private limited.NewDelhi.India.</p> <p>3 -Hocker, H. W., Jr (2001) "Introduction to Forest Biology". John Wiley & Sons, NewYork,US.</p> <p>4 -Spurr, S. H. and Barnes B. V. (2006) " Forest Ecology", third eddition. John Wiley & Sons, New York, US.</p> <p>5 -West, C. D.; Shugart H. H. and Botkin D. B. (eds) (2007) "Forest Succession, concepts and Application". Proceedings of a conference held in June 1980 at Mountain Lake, Virginia, US.</p> <p>6 -Young, R. A. (2007) "Introduction to Forest Science". John Wiley & Sons, New York, US.</p> <p>7/عابد ، عبدالقادر واخرون (2004) أساسيات علم البيئة، الطبعة الثانية. دار الشروق ، عمان</p> <p>8/كوبال ، بريجوان. بهاردواج (2006) مبادئ علم البيئة. حديد ، احمد وفاضل الحسني (2008) علم المناخ . جامعة بغداد ، بغداد.</p>
--------------------	--

Course topics (Theory)	Week	Learning Outcome
1. The concept and definition of Ecology	1	
2. The importance of the Ecology	2	
3. Relationship of ecology science Other	3	
4. The division of Ecology for the purposes of the scientific researches	4	
5. Ecosystem and Structure of ecosystem	5	
6 - Climate factors Light factor	6	

7-The adaptation of plants to light	7	
8 -Heat factor - adaptation of plants to heat	8	
9- Hydrophilic factor - adaptation of plants to drought and cold	9	
10 -Soil factor - vegetative cover	10	
11 -wind factor	11	
12. environmental pollution	12	
Practical Topics	Week	Learning Outcome
1 Learn about the environmental laboratory	1	
2– Study the surrounding factors and identify the devices used	2	
3– Measuring factors of temperature, humidity, pressure, wind and rain	3	
4-.Devices used to measure the elements of climate	4	
5-Temperature measure - How accounts temperature	5	
6-A ir - Temperature	6	

7-. Evaporation measure	7	
8-The definition of the types of environment	8	
9-The effect of the environment on agriculture	9	
10-Meteorological stations	10	
11-Watching plant adaptations in the field to environmental actors	11	
12-Collect models of vegetation cover	12	
<p>Questions Example Design</p> <p>Q1/ Define the following phrases? Ecology - Ecosystem</p> <p>Q2/ Write the Climate factors Light factor</p> <p>Q3/ What's the Meteorological stations</p> <p>Extra notes:</p>		
External Evaluator		

