

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Title Research Methods in Weed Science							
Course Code	ZBK527		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit 8	Workload	200 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course The aim of the course is to examine the methods of laboratory, greenhouse and field conditions related to herbology.						related		
Course Content Herbarium making techniques, how to make and assess the survey, how to do germination and dormancy studies, how to make a critical period and economic loss threshold study in the control o weeds, how to make herbicidal activity is understood how to do.								
Work Placement N/A								
Planned Learning Activities and Teaching Methods Explanation (Presentation), Discussion, Case Study, Individual Study					dy			
Name of Lecturer(s) Prof. Mehmet Nedim DOĞAN								

Assessment Methods and Criteria						
Method	Quantity	Percentage (%)				
Midterm Examination	1	40				
Final Examination	1	60				

Reco	mmended or Required Reading
1	Camper, N.D., 1986. Research Methods in Weed Science. Southern Weed Science Society, 485p.
2	Uygur, F.N., 1991. Herbolojide Araştırma Yöntemleri, Ç.Ü. Fen Bil. Ens. Yardımcı Ders Notu
3	Anonymous, 1996. Zirai Mücadele Standart İlaç Deneme Metodları (Cilt 3) T.C. Tarım ve Köyişl Bak. Tarımsal araştırmalar Gen. Müd. Ankara.
4	Anonymous, 2004. Manual for Field Trials in Crop Protection, Syngenta. 444p.

Week	Weekly Detailed Cour	se Contents					
1	Theoretical	Herbarium making techniques					
2	Theoretical	Weed species and coincidence frequency and methods of detection of plating areas and table of results					
3	Theoretical	Experiment patterns used in Herbology					
4	Theoretical	Collection and collection techniques of weed seeds					
5	Theoretical	Germination experiments and evaluation of weed seeds					
6	Theoretical	Dormancy experiments and evaluation of weed seeds					
7	Theoretical	Measurement of ecological factors affecting contamination					
8	Intermediate Exam	Midterm					
9	Theoretical	Allelopathy studies					
10	Theoretical	Points to be considered when applying herbicide					
11	Theoretical	Economic damage threshold studies in Herbology					
12	Theoretical	Critical Period Studies in Herbology					
13	Theoretical	Determination of biological activity of herbicides					
14	Theoretical	Overview of chromatographic techniques					
15	Theoretical	Overview of the detection of the effect of herbicides on cell components					
16	Final Exam	Final Exam					

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Lecture - Practice	14	3	2	70
Midterm Examination	1	34	1	35



Final Examination	1		38	1	39
	Total Workload (Hours) 200				200
			[Total Workload (Hours) / 25*] = ECTS	8
*25 hour workload is accepted as 1 ECTS					

Learn	ing Outcomes
1	To learn how to establish and evaluate laboratory, greenhouse and field trials related to herbology
2	To learn how to make a survey
3	To learn how to evaluate and evaluate the critical period and the economic damage threshold study
4	Learning of herbarium making techniques
5	To learn the methods of detection of weed species and coincidence frequency and coating areas

Progr	ramme Outcomes (Plant Protection Master)
1	To develop knowledge and abilities that gained during undergraduate education
2	To gain ability to search and pursue current literature
3	To gain ability to plan and write projects that help solving problems in field of study.
4	To gain ability to conduct research, analyze data, evaluate research results scientifically and preapare reports and thesis writing.
5	Students will be able to learn and apply the laboratory test and analysis methods
6	To recognize occupational and ethical responsibility

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5
P1	4	4	4	5	5
P2	5	5	4	4	5
P3	4	4	5	4	5
P4	4	4	4	4	4
P5	4	4	4	4	5
P6	4	4	4	4	4

