



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Weeds and Their Control							
Course Code		PSB242		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		To give information about the basis of herbology science, the biological characteristics of weeds, their relations with environmental factors, methods of weed control, general characteristics of herbicides, classification and behaviors of herbicides.							
Course Content		By describing weeds, their benefits, harms, biology and ecology are explained. Weed is introduced and it is taught how to control them. In addition, information about the definition, classification and application of herbicides is given.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion, Case Study, Individual Study					
Name of Lecturer(s)		Lec. Birsen GEÇİOĞLU ERİNCİK							

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading

1	Güncan, A. ve Karaca, A. 2014.Yabancı Ot Mücadelesi. Selçuk Üniversitesi Basımevi, 3. Baskı, 309 s.
2	Güncan, A. 2013. Yabancı Otlar ve Mücadele Prensipleri. Selçuk Üniversitesi Basımevi, 5. Baskı, 313 s.

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to herbology, history, definition of basic concepts, differences between wild herb and weed.
2	Theoretical	Weeds in the systematic and taxonomic terminology.
3	Theoretical	General biological principles, generative reproduction in the weeds, seed development, germination, internal and external factors of dormancy.
4	Theoretical	The number of seeds formed by weeds, seed bank in the soil, life and distribution of seeds.
5	Theoretical	Weeds in the vegetative reproduction, underground and aboveground reproductive organs.
6	Theoretical	Apical dominance and vegetative propagation.
7	Theoretical	Development stages of grass and broad leaved weeds.
8	Theoretical	Weed ecology, biotic and abiotic factors.
9	Theoretical	Weed ecology, biotic and abiotic factors.
10	Theoretical	Allelopathy in agricultural ecosystems.
11	Theoretical	Population dynamics of weeds.
12	Theoretical	Selectivity of herbicides (role of the plant, role of the herbicides, environment factors)
13	Theoretical	The mode of action of herbicides.
14	Theoretical	Methods of weed control (cultural measures, mechanical, biological, and chemical control)
15	Theoretical	Methods of weed control (cultural measures, mechanical, biological, and chemical control)
16	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	1	14	1	15
Midterm Examination	1	2	1	3



Final Examination	1	3	1	4
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	To learn the general information about herbology science.
2	To know the economic significance, direct and indirect effects, socio- economic impact of weeds.
3	To know the damages of weeds from cultivated plant.
4	To know the development stages of weeds.
5	To learn the reproduction and dissemination of weeds.
6	To learn the biology of some weeds.
7	To learn and use different control methods for weed control theoretically and practically.
8	To know the uptake and translocation of herbicides.
9	To know the classification of herbicides according to their chemical structure.
10	Herbicide registered in Turkey.

Programme Outcomes (Organic Agriculture)

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

	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
P5	5	5	5	5	5	5	5	5	5	5

