

ENVIRONMENTAL PROBLEMS IN PLANT PRODUCTION

1	Course Title:	ENVIRONMENTAL PROBLEMS IN PLANT PRODUCTION
2	Course Code:	TAB5011
3	Type of Course:	Optional
4	Level of Course:	Second Cycle
5	Year of Study:	1
6	Semester:	1
7	ECTS Credits Allocated:	6.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	2.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Doç.Dr. OYA KAÇAR
15	Course Lecturers:	Prof.Dr. Emine BUDAKLI ÇARPICI
16	Contact information of the Course Coordinator:	e-posta:okacar@uludag.edu.tr Telefon: 0 224 29 415 23 Adres: Bursa Uludağ Üniversitesi Ziraat Fakültesi Tarla Bitkileri Bölümü
17	Website:	None
18	Objective of the Course:	The objective of this course is to explain relations between harmful effects of environmental pollution in terms of plant health and development and field crops and is to show effort to the development of students' awareness of these issues and the environment enlightenment.
19	Contribution of the Course to Professional Development:	This course provides the ability to see the effects of environmental pollution on field crop cultivation, to offer solutions to the problems that may be encountered and to make suggestions.
20	Learning Outcomes:	
	1	Be able to grow environmentally sensitive individuals
	2	Be able to know negative effects of pollution sources on field crops
	3	Be able to recognize major pollution sources creating environmental problems
	4	Be able to have knowledge about dirty water assessment methods in agriculture
	5	Be able to have knowledge about waste sludge assessment methods in agriculture
	6	Be able to gain ability to distinguish effects on agricultural ecosystem of environmental problems from other factors effects
	7	Be able to gain ability to distinguish effects on agricultural ecosystem of agricultural activities from other factors effects
	8	Be able to have information about environmental friendly agriculture techniques
	9	
	10	
21	Course Content:	

	Course Content:			
Week	Theoretical	Practice		
1	Environment and Classification of Environmental Problems			
2	Sources of air pollution			
3	Air pollution negative effects in crop plants production			
4	Causes of water pollution, Water pollution negative effects in crop plants production			
5	Effects of agricultural activities on pollution of water resources			
6	The effects of dirty water using in agriculture			
7	Soil contaminants			
8	Important soil pollution problems			
9	Negative roles of agricultural activities in soil pollution			
10	Fitoremediation and Using Plants			
11	Misuse of agriculture land			
12	Erosion and it's effects			
13	The harmful effects of polluted environment on forest, grassland and endemic plants			
14	Homework evaluation			
Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical		14	2.00	28.00
Practicals/Labs		14	2.00	28.00
Self study and preperation		10	1.00	10.00
Homeworks		5	20.00	100.00
Projects		1	0.00	0.00
Field Studies		0	0.00	0.00
Midterm exams		4	0.00	0.00
Others		0	0.00	0.00
Final Exams		1	20.00	20.00
Total Work Load				186.00
TERM LEARNING ACTIVITIES		NUMBER	WEIGHT	
Total work load/ 30 hr				6.20
ECTS Credit of the Course				6.00
Quiz	0	0.00		
Home work-project	5	50.00		
Final Exam	1	50.00		
Total	6	100.00		
Contribution of Term (Year) Learning Activities to Success Grade		50.00		
Contribution of Final Exam to Success Grade		50.00		
Total		100.00		
Measurement and Evaluation Techniques Used in the Course		It is evaluated according to the principles of the Postgraduate Education Regulation of Bursa Uludağ University.		
24	ECTS / WORK LOAD TABLE			

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	3	3	3	3	2	4	4	3	4	5	0	0	0	0	0	0
ÖK2	4	5	4	3	2	4	4	3	4	4	0	0	0	0	0	0
ÖK3	4	5	4	3	2	4	4	3	4	4	0	0	0	0	0	0
ÖK4	4	4	4	3	2	3	4	3	4	4	0	0	0	0	0	0
ÖK5	4	4	4	3	2	4	4	3	4	4	0	0	0	0	0	0
ÖK6	4	5	5	4	2	4	4	3	5	4	0	0	0	0	0	0
ÖK7	4	5	5	4	2	4	4	3	5	4	0	0	0	0	0	0
ÖK8	4	4	4	3	2	4	3	3	5	4	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low		2 low			3 Medium			4 High			5 Very High				