ALLELOPATY IN FIELD CROPS

1	Course Title:	ALLELOPATY IN FIELD CROPS
2	Course Code:	TAB5041
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):	3.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. Murat ERMAN
15	Course Lecturers:	Yok
16	Contact information of the Course Coordinator:	e-mail: muraterman@uludag.edu.tr Tel: 0 224 29 41468
17	Website:	
18	Objective of the Course:	The aim of this course; To give basic information about allelopathy in field crops.
19	Contribution of the Course to Professional Development:	Students taking the course are provided with knowledge and experience in allelopathy in field crops cultivation. It contributes to allelopathy in the preparation of field crops projects.
20	Learning Outcomes:	
	1	Recognizes those with allelopathic characteristics in field crops.
	2	Learns the effects of allelochemicals on plant growth.
	3	Learns the methods of using allelochemicals as herbicide, insecticide, bactericide and fungicide.
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21	Course Content:	

Course Content:

Week	Theoretical	Practice
1	Definition, importance and history of allelopathy	
2	Allelopathy in natural and artificial ecosystems	
3	Some techniques used in allelopathy studies	

4	Classification and transport of allelochemicals and factors affecting it	
5	Allelochemicals and the environment	
6	General modes of action of allelochemicals	
7	Effects of secondary metabolites on plants, bacteria and protein synthesis	
8	Ways of utilizing allelochemicals	
9	Allelopathic interactions between plants and their importance in practice	
10	Allelopathic mechanism of nematode control	
11	Rice plant and allelopathy	
12	Alfalfa saponins and allelopathyv	
13	Allelopathic effects on nitrogen fixation and nitrification	
14	Recent studies on the allelopathic characteristics of field crops	

22	Textbooks, References and/or Other Materials:	Rice, E. L. 1984. Allelopathy Academic Press, New York. Rivzi S. J. H., Rivzi V. 1992. Allelopathy, Chapman and Hall, London. Hale, M. G., Orcutt, D. M. 1987. The physiology of plants under stress. John Wiley and Sons, New York Kocaçalışkan, İ. 2006. Allelopati. Bizim Büro Yayınevi, 132 s. National and international articles about this subject

Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical		14	3.00	42.00
Midterm Exam	0	0.00		
Practicals/Labs		0	0.00	0.00
Self study and preperation		14	4.00	56.00
Home work-project	12	40.00		
Homeworks		12	5.00	60.00
Projects		0	0.00	0.00
Total	13	100.00		
Field Studies		0	0.00	0.00
Midterm Exams		0	0.00	0.00
Others		0	0.00	0.00
Final Exams		1	15.00	15.00
Total		100.00		
Total Work Load				173.00
Total work load/ 30 hr		the priciples of Bursa uludag University Associate and		5.77
ECTS Credit of the Course				6.00

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	5	5	5	4	4	5	5	3	5	4	0	0	0	0	0	0
ÖK2	5	5	5	4	4	5	5	4	5	4	0	0	0	0	0	0
ÖK3	5	5	5	5	4	5	5	4	5	5	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