IV	IOLECULER BIOLOGY		BIOTIC STRESS TOLERANCE IN ANTS						
1	Course Title:	MOLECU PLANTS	JLER BIOLOGY OF BIOTIC STRESS TOLERANCE IN						
2	Course Code:	BIO6419							
3	Type of Course:	Optional							
4	Level of Course:	Third Cy	cle						
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 f	face						
14	Course Coordinator:	Dr. Ögr.	Üyesi FİGEN ERSOY						
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	e-posta: figen@uludag.edu.tr 0 224 29 41776 Fen-Edebiyat Fakültesi, Moleküler Biyoloji ve Genetik Bölümü, Görükle Kampüsü, 16059 Bursa							
17	Website:								
18	Objective of the Course:	The aim of the course is to teach molecular biology of biotic stress tolerance in plants. Objective of the course is to teach new techniques and to expand the student's experimental point of view.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	Analyse and solve plant science and biotechnology problems using an integrated multidisciplinary approach.						
		2	Integrate and evaluate critically information from various sources.						
		3	Plan, conduct and write a programme of original research.						
		4	Use modern information and communications technologies.						
		5	Critically evaluate scientific publications.						
		6	Communicate effectively through oral presentations						
		7	Devise experimental methodologies for plant science and biotechnology problems						
		8	Transfer techniques and solutions from one discipline to another.						
		9							
		10							

21	Course Content:									
		Co	urse Content:							
Week	Theoretical		Practice							
1	Introduction									
2	Defense mechanism in plants									
3	Viral stress									
4	Bacterial stress									
5	Fungal stress									
6	nematodes									
7	R genes									
8	R genes (cont.)									
9	Signal transduction									
10	Paper presentation 1&2									
11	Paper presentation 3&4									
Activit	es		Number	Duration (hour)	Total Work Load (hour)					
Theore	Paper procentation 0810		14	3.00	42 00					
Practic	als/Labs		0	0.00	0.00					
Self stu	Idy and preperation		1	15.00	15.00					
Homew			3	20.00	60.00					
Pr <b>2</b> ject	Assesment		0	0.00	0.00					
Field S	tudies		0	0.00	0.00					
Midterr	n exams	R	1	25.00	25.00					
Others			0	0.00	0.00					
Final E	xams		0 00	40.00	40.00					
Total V	/ork Load	1/			182.00					
Total w	xanı ork load/ 30 hr	ľ	00.00		6.07					
ECTS (	Credit of the Course		1000		6.00					
	ution or Term (Year) Learning Activit ss Grade	ies to	40.00		1					
Contrib	ution of Final Exam to Success Grad	le	60.00							
Total			100.00							
Measu Course	rement and Evaluation Techniques U	Ised in the								
24	ECTS / WORK LOAD TABLE									
25	CONTRIBUTION		RNING OUTC	OMES TO PROGRAM	име					
	PQ1 PQ2 PQ3 PQ4 PQ5 PQ	06 PQ7 P	08 PQ9 PQ1	P011 P012 P01 P014	1 PO15 PO16					

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	5	4	5	4	4	5	5	5	4	0	0	0	0	0	0	0

ÖK2	5	5	5	5	4	4	4	5	5	0	0	0	0	0	0	0
ÖK3	4	5	5	4	5	5	5	5	5	0	0	0	0	0	0	0
ÖK4	4	5	4	0	5	5	4	5	4	0	0	0	0	0	0	0
ÖK5	5	5	4	4	5	5	5	4	4	0	0	0	0	0	0	0
ÖK6	5	4	5	4	5	5	4	4	4	0	0	0	0	0	0	0
ÖK7	5	5	4	5	4	4	4	4	5	0	0	0	0	0	0	0
ÖK8	5	4	5	4	5	5	5	5	5	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2 low		3 Medium		4 High				5 Very High					