TRANSGENIC PLANT TECHNOLOGY										
1	Course Title:	TRANS	GENIC PLANT TECHNOLOGY							
2	Course Code:	MBG4115								
3	Type of Course:	Optional								
4	Level of Course:	First Cyc	cle							
5	Year of Study:	4								
6	Semester:	7								
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:	Dr. Ögr. Üyesi FİGEN ERSOY								
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	e-posta: figen@uludag.edu.tr 0 224 29 41779 Fen-Edebiyat Fakültesi, Biyoloji Bölümü, Görükle Kampüsü, 16059 Bursa								
17	Website:									
18	Objective of the Course:	The aim of the course is to make the students learn the gene transfer methods in plants. The goals are to teach the new methods in Transgenic Plant Technology, it's applications and to develop the students experimental view.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	Integrate and evaluate critically information from various sources.							
		2	Analyse and solve problems using an integrated multidisciplinary approach.							
		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 proteomics methodologies for problems.							
		8	Transfer techniques and solutions from one discipline to another.							
		9								
		10								

21	Course Content:											
	Course Content:											
Week	Theoretical		Р	ractice								
1	Introduction		Ī									
2	Gene cloning in plants											
3	preparation of vectors											
4	the methods in order to prepare tran plants	sgenic										
5	PEG, Electroporation		Ī									
6	Liposome mediated gene transfer, microinjection											
7	Agrobacterium mediated gene trans	fer	Γ									
8	Biolistic											
9	applications in plants (Resistance to cold, diseases, heavy metals etc.)	drought,	Ī									
10	applications in plants (Resistance to	drought,										
Activit	Lil Paranella Caractela Ca			Number	Duration (hour)	Total Work Load (hour)						
The pre	i¤aber presentations		T	14	2.00	28.00						
	als/Labs		<u> </u>	0	0.00	0.00						
Self stu	dy and preperation		Τ	14	1.00	14.00						
Homew	vorks		<u> </u>	0	0.00	0.00						
Project	6			0	0.00	0.00						
Field S	tudies			0	0.00 0.00							
Midtern	Maxamals:		ΤP	ant Biotechnology and	4ர்ளுஓgenic Plants	40.00						
Others			11/	0 OKÉMVE	0.00	0.00						
Final E	kams			1	40.00	40.00						
Total W	/ork Load					122.00						
Total w	EARNING ACTIVITIES	NUMBE R	W	EIGHT		4.07						
ECTS (Credit of the Course	11.				6.00						
Quiz		0	0.00									
Home v	work-project	0	0	0.00								
Final E	xam	1	6	60.00								
Total		2	1	100.00								
Contrib Succes	ution of Term (Year) Learning Activit	ies to	4	40.00								
Contrib	ution of Final Exam to Success Grad	le	6	60.00								
Total			1	100.00								
Measui Course	rement and Evaluation Techniques U	sed in the										
24	ECTS / WORK LOAD TABLE											

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