	EXPERIMENTAL DESI	IGN A	ND APPLICATION IN BIOLOGY						
1	Course Title:	EXPERI	MENTAL DESIGN AND APPLICATION IN BIOLOGY						
2	Course Code:	FEN4101							
3	Type of Course:	Optional							
4	Level of Course:	First Cycle							
5	Year of Study:	4							
6	Semester:	7							
7	ECTS Credits Allocated:	6.00							
8	Theoretical (hour/week):	2.00							
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 YETER ŞİMŞEKLİ							
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	ysimsekli@uludag.edu.tr, 2942290, U.Ü.Eğ.Fak.FBE ABD							
17	Website:								
18	Objective of the Course:	Students to gain skills in designing and application Biologycal experiments.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	Realizes the importance of doing experiments in Biology education						
		2	Knows what kind of experimental method and variety using in laboratory						
		3	To be able to determine objectives of experiments. Choosing the right material using in the experiment						
		4	Reports the outcome of an experiment						
		5	Designs experiments using simple material about Biology topic						
		6	Designs physical facilities of the laboratory according to instructional purposes						
		7							
		8							
		9							
		10							
21	Course Content:		•						
10.	· · ·	Сс	ourse Content:						
Week 1	Theoretical Try the place and importance of Tea	ching	Practice						
2	Approaches and types of laboratory								
3	The test method and relationship ediprograms	ucation							
	programs								

4	Experimental preparation of leaf									
5	Test and recovery for the purpose of determining									
6	Experiment to determine the tools an devices	d								
7	Cheap and waste material, tool-maki equipments	ng								
8	Types of laboratory regulation									
9	The process of conducting experiment collecting data	nts and								
10	Experimental results and judgment p discussion	rocess of								
11	Computer-aided design of experimen	its								
12	Sample experiment design for the Bio Sciences	ologycal								
13	Sample experiment design for the Bio Sciences	ologycal								
14	Sample experiment design for the Bio Sciences	ologycal								
22	Textbooks, References and/or Other Materials:		A: 2- P: D:	1-Rezba, R. J., Fiel R. L., Funk H. J., Learning and Assessing Science Proces Skill. Third Edition 1995 2-Keeton, W.T., Gould, J.I., Gould, C.G.,Genel Biyoloji, Palme Yayıncılık, Ankara, 2000.(Çeviri editörleri Ali Demirsoy, İsmail Türkan, Ertunç Gündüz) 3-Kesercioğlu, T., Biyoloji Uygulamaları II, Anı Yayıncılık,						
Activit	tes			Number	Duration (hour)					
Theore	ical		6-	Özmen Haluk, Yiğit N						
Practic	als/Labs			aboratuar Kullanımı A i O	0.00	0.00				
Self stu	dy and preperation		L	Apdac O Hücre Fizy	டி, இegem A Yayın	36.00				
Homev	vorks		IX.	10	5.00	50.00				
Project	\$			Kocabaş A., EKOLOJI	<u>Ç</u> ewre Biyolojisi, E	geddniversitesi				
Field S	tudies			0	0.00	0.00				
Midter	LEARNING ACTIVITIES	NUMBE	W	ÊIGHT	0.00	0.00				
Others				1	20.00	20.00				
Middett	xams ^m	0	0.	90	30.00	30.00				
	Vork Load					184.00				
Heraew	WPK ^k tፚቜ <mark>ዸ</mark> ፞፞፞፞፞፞፞፞፞፞፞፞ቔጛ፞ hr	1	2	0.00		6.13				
	Credit of the Course					6.00				
Total		3		00.00						
Contribution of Term (Year) Learning Activities to Success Grade			50	50.00						
Contrib	oution of Final Exam to Success Grade)	50	50.00						
Total			10	100.00						
Measu Course	rement and Evaluation Techniques Us	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LO: Learning Objectives PQ: Program Qualifications																	
Contrib ution Level:				2	2 low			3 Medium			4 High			5 Very High			