GENERAL MICROBIOLOGY LAB									
1	Course Title:	GENERAL MICROBIOLOGY LAB							
2	Course Code:	BYL2053							
3	Type of Course:	Compulsory							
4	Level of Course:	First Cycle							
5	Year of Study:	2							
6	Semester:	3							
7	ECTS Credits Allocated:	2.00							
8	Theoretical (hour/week):	0.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	2							
11	Prerequisites:	BYL 2003 General Microbiology course to be taken.							
12	Language:	Turkish							
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	Doç.Dr. C.CEM ERGÜL							
15	Course Lecturers:	Doç. Dr. C. CEM ERGÜL							
16	Contact information of the Course Coordinator:	Bursa Uludağ Universitesi Fen-Edebiyat Fakültesi Biyoloji Bölümü Görükle Kampüsü, Nilüfer/BURSA 16059 e-posta: ergulc@uludag.edu.tr Telefon: 0 224 294 17 81 Bursa Uludag University Faculty of Arts and Science Department of Biology Gorukle Campus, Nilufer/BURSA 16059 e-mail: ergulc@uludag.edu.tr Phone: 0 224 294 17 81							
17	Website:								
18	Objective of the Course:	The use of Equipments and a microscope. Diagnoses and diagnostic samples to reveal for the characteristics of microorganisms. Preparation of nutrient medium. Understanding of the microbiology laboratory operating conditions and rules.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	Can realise some stain methods on microorganisms						
		2	May perform on microbiological materials cultivation, determination and the identification.						
		3	Can make measure from microorganisms						
		4	Can perform monitoring and evaluation of the preparation of the culture medium.						
		5	May perform cultivation, determination identification on microbiological materials.						
		6	Can be known of sidal and static measures and criteria against to microorganisms						
		7							
		8							
		9							
		10							
21	Course Content:								

Course Content:											
Week	Theoretical		Ρ	Practice							
1			In	Introduction to laboratory materials and equipment							
2			Medium preparation and inoculation, morphologically investigation of bacteria and pure culture obtaining								
3			Izolation of bacteria, Simple staining and Gram staining techniques								
4			С	Capsule staining, Endospore staining							
5			Morphologically and sitologically investigation of Yeast and mould Fungi								
6			Morphologically investigation of Algal and Protozoan group microorganisms								
7			Midterm and repetation of previously course subjects								
8			Size of microorganisms and measurements								
9			D m	Direct microscopic count; Breed method, Thoma slide, membrane filter, turbidometer							
10			P	Plate culture technique							
11			A	Antibogram							
12			In	troduction on soil and	aquatic biology						
13			In	troduction on food mic	robiology						
14			Microorganisms control;by use Physical and Chemical methods								
Activit	es			Number	Duration (hour)	Total Work Load (hour)					
Theore	tical		-	BILGEHAN, H. Temel	Will@biyoloji ve Ba	j 0ş00 ık Bilimi,					
Practica	als/Labs			14	2.00	28.00					
Self stu	dy and preperation		- (N	QOTUK, A. Genel Mikr	abooloji Laboratua	r1) 6öndemleri,					
Homew	vorks			0	0.00	0.00					
Project	8		W	est Sussex, England,							
Field St	tudies			0	0.00	0.00					
Midtern	n exams			1	7.00	7.00					
Others				0	0.00	0.00					
Fi 23 E	kassesment			1	9.00	9.00					
Total W	/ork Load	R				60.00					
Total w Midtern	ork load/ 30 hr	1	2	5.00		2.00					
	Credit of the Course	2				2.00					
Home work-project 0				0.00							
Final Exam 1				60.00							
Total		4	100.00								
Contrib Succes	ution of Term (Year) Learning Activitie s Grade	es to	40.00								
Contrib	ution of Final Exam to Success Grade))	60.00								
Total			100.00								
Measurement and Evaluation Techniques Used in the Course											
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	4	0	0	4	0	4	4	4	3	4	3	4	0	0	0	0
ÖK2	4	0	1	4	0	4	2	2	3	3	2	4	0	0	0	0
ÖK3	3	2	1	3	0	0	5	0	0	5	3	2	0	0	0	0
ÖK4	3	2	1	3	0	0	5	0	0	5	3	2	0	0	0	0
ÖK5	0	0	1	4	0	4	4	4	1	4	3	3	0	0	0	0
ÖK6	4	0	1	1	0	0	4	0	0	3	2	3	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	1 very low				2 low	3 Medium			4 High			5 Very High				