BACTERIAL PHYSIOLOGY									
1	Course Title:	BACTER	IAL PHYSIOLOGY						
2	Course Code:	BYL4089	)						
3	Type of Course:	Optional							
4	Level of Course:	First Cyc	le						
5	Year of Study:	4							
6	Semester:	7							
7	ECTS Credits Allocated:	4.00							
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 f	ace						
14	Course Coordinator:	Prof. Dr.	Elif Demirkan						
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	edemirkan@uludag.edu.tr Tel: (0224)2941794 Uludağ Üniversitesi Fen-Edebiyat Fakültesi, Biyoloji Bölümü, B Blo Görükle Kampüsü, Nilüfer/BURSA 16059 Uludag University, Faculty of Science&Letters, Department of Biology, Nilufer/BURSA 16059							
17	Website:								
18	Objective of the Course:	physiolog	of this course is understand concepts in bacterial gy with emphasis on basic biochemical patways, sm and bacterial cellular development.						
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	To be able see the continuity of the relationship between the environment and living						
		2	The ability to effectively employ communication technologies						
		3	To earn the ability to transfer information						
		4	The ability to win the professional and ethical responsibility awareness						
		5	To have sufficient knowledge in areas of Natural Sciences for which one might be consulted						
			Be aware of scientific innovation about bacteria						
		7	To comprehend the position and responsibility of microorganisms beings in nature						
		8	To be able to reach up to date information						
		9							
		10							
21	Course Content:								
101	Th (' l	Со	purse Content:						
	Theoretical	ا - ا - ا ما	Practice						
1	General characters of bacteria: morp features	noiogical							

2	Bacteria anatomical structures: interr	nal								
	structures									
3	Bacteria anatomical structures: exter structures	nal								
4	Chemical structure of bacteria, nutriti reproduction	ion and								
5	Factors Influencing bacterial Growth: and chemical factors	physical								
6	Factors Influencing bacterial Growth: biological and mechanical factors									
7	Control of microbial reproduction: the chemical and physical items	use of								
8	Bacterial Metabolism and regulation									
9	Genetic adaptation									
10	Phototropism and Chemotropism									
11	Specific metabolic pathways:metilotr syntrophy, Asetogenesis, anammox									
12	Archaebacteria									
13	Proteobacteria									
14	The communication between bacteria Quorum Sensing	a:								
22	Textbooks, References and/or Other Materials:		E. Demirkan, Bacterial Physiology Lecture Notes  Madigan, M, Martinko, JM., Parker, J. Brock Biology of Microorganisms.							
23	Assesment									
TERM I	LEARNING ACTIVITIES	NUMBE R	WEIGHT							
Midterr	m Exam	1	40.00							
Quiz		0	0.00							
Home	work-project	0	0.00							
Final E	xam	1	60.00							
Total		2	100.00							
Contribution of Term (Year) Learning Activities to Success Grade			40.00							
Contrib	oution of Final Exam to Success Grade	9	60.00							
Total			100.00							
Measu Course	rement and Evaluation Techniques Use	sed in the								
24	ECTS / WORK LOAD TABLE									

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	15	6.00	90.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	1.00	1.00
Others	0	0.00	0.00
Final Exams	1	1.00	1.00
Total Work Load			120.00
Total work load/ 30 hr			4.00
ECTS Credit of the Course			4.00

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