PHYTOBACTERIOLOGY									
1	Course Title:	PHYTOBACTERIOLOGY							
2	Course Code:	BTK3605							
3	Type of Course:	Compulsory							
4	Level of Course:	First Cycle							
5	Year of Study:	3							
6	Semester:	5							
7	ECTS Credits Allocated:	2.00							
8	Theoretical (hour/week):	2.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0	0						
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	Dr. Ögr. Üyesi KADİR İLHAN							
15	Course Lecturers:	Yrd. Doç. Dr. Kadir İlhan							
16	Contact information of the Course Coordinator:	E-posta: kadirilhan@uludag.edu.tr Tel: 90.224.2941571							
		Bursa U. Ü. Ziraat Fak. Bitki Koruma Bölümü 16059 Görükle/BURSA							
17	Website:	10000 GOLUME/DOLLON							
18	Objective of the Course:	This course is designed to teach students the general characteristics of bacteria, to give basic information on bacterial cell, growth and reproduction, to introduce certain taxonomic categories that contain plant pathogenic bacteria, symptoms caused bacteria in the plant, the disease-causing factors, ways to transport and spread of bacteria, control methods against important bacterial plant diseases.							
19	Contribution of the Course to Professional Development:		This course provides students basic knowledge about phytobacteriology						
20	Learning Outcomes:								
		1	Students should be able to main characteristics of bacteria distinguishing them from other groups of microorganism						
		2	To understand their importance in many relations with human life						
		3	To comprehend the differences in phenotypic characters that are essential for bacterial taxonomy.						
		4	To understand the reproduction and growth of bacteria						
		5	To learn propagation and dissemination of the bacteria						
		6	To be able to distinguish bacteria than yeast						
		7	To learn how to adjust bacterial inoculum concentrations						
		8	To learn ways to spread plant pathogenic bacteria						
		9	To learn symptoms, life circles, epidemiology and control methods of important phytopathogen bacteria						
		10	To be learn control methods of plant pathogenic bacteria.						
21	Course Content:								
		Co	ourse Content:						
Week	Theoretical		Practice						

1	Introduction to bacteriology, their signifor human life and environment, the placteria in the kingdoms of life.								
2	Bacterial cell structure, nutrition and g bacteria, physiology of bacteria	rowth of							
3	Classification and nomenclature of ba	cteria							
4	Pathogenicity and pathogenicity factor bacteria, bacteriophage and bacteria l organism								
5	Transportation and spread of bacteria	,							
6	Disease symptoms of bacteria and prebacteria inoculum	epare to							
7	Repeating courses and midterm exam)							
8	Identification of bacteria, morphological biochemical and physiological charact serological definitions								
9	Agrobacterium tumefaciens and Erwin amylovora symptoms, life circle, epide and control methods								
10	Xanthomonas campestris, Xanthomor campestris pv. phaseoli symptoms, lif circles, epidemiology and control methods.	fe							
11	Clavibacter michiganence Pseudomor solanacearum, symptoms, life circle, epidemiology and control methods	nas							
Activi				Number	Duration (hour)	Total Work Load (hour)			
Theore	syringae symptoms, lite circles, epidel elical and control methods	miology		14	2.00	28.00			
	cals/Labs			0	0.00	0.00			
Self st	Lepidemiology and control methods			0	0.00	0.00			
Home				1	5.00	5.00			
Project	t Materials:		S	rategies and Techniques	esoto Promote Plan	ენტდwth.			
Field S	Studies			0	0.00	0.00			
Midteri	n exams		S M	aygılı, H., Şahin, F., A eta Basım	/ գ <u>ტ</u> ეტ∕., 2006. Fito	b pk<u>t</u>or jyoloji			
Others				1	5.00	5.00			
Final E			A	grios, G.N. 2005. Plan cademic Press. Inc. no	行組的のogy. Fifth E				
	Vork Load			2006 Dbyte	ha atariala av. CARI	63.00			
	vork load/ 30 hr		Ji In	anse, J.D. 2005. Phyto ternational Oxfordshi	e UK n360	2.10			
ECTS	Credit of the Course			 aykal, N., 1990. Bakte akültesi Ders Notları N		2.00 /ersitesi Ziraat			
			Klement Z., Rudolph K., Sands DC. 1990. Methods in Phytobacteriology. Akademiai Kiado.						
						Methods in			
23	Assesment					Methods in			
	LEARNING ACTIVITIES	NUMBE R	Ρ			Methods in			
TERM	LEARNING ACTIVITIES		P W	hytobacteriology. Akad		Methods in			
TERM	LEARNING ACTIVITIES m Exam	R	W	hytobacteriology. Akad		Methods in			
Midteri Quiz	LEARNING ACTIVITIES IN Exam	R 1	9 30 5.	hytobacteriology. Akad /EIGHT		Methods in			
Midteri Quiz	m Exam work-project	R 1 1	9 30 5.	hytobacteriology. Akad /EIGHT 0.00		Methods in			

Contribution of Term (Year) Learning Activities to Success Grade	40.00					
Contribution of Final Exam to Success Grade	60.00					
Total	100.00					
Measurement and Evaluation Techniques Used in the Course	It is evaluated according to the principles of the Associate and Undergraduate Education Regulation of Bursa Uludağ University.					
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	3	0	0	0	0	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	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK8	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK9	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK10	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2	2 low		3	Medi	um	ım 4 High			5 Very High				