FOOD MICROBIOLOGY											
1	Course Title:	FOOD M	IICROBIOLOGY								
2	Course Code:	GIDZ104	4								
3	Type of Course:	Compuls	sory								
4	Level of Course:	Short Cy	rcle								
5	Year of Study:	1									
6	Semester:	2									
7	ECTS Credits Allocated:	5.00									
8	Theoretical (hour/week):	2.00									
9	Practice (hour/week):	2.00									
10	Laboratory (hour/week):	0									
11	Prerequisites:	-									
12	Language:	Turkish									
13	Mode of Delivery:	Face to	face								
14	Course Coordinator:	Dr. Ögr.	Üyesi ASUMAN KARAKAŞ ŞEN								
15	Course Lecturers:	Yard.Do	ç.Dr. Asuman KARAKAŞ ŞEN								
16	Contact information of the Course Coordinator:	U.Ü. Yer	ç.Dr. Asuman KARAKAŞ ŞEN nişehir İ.O.M.Y.O. s@uludag.edu.tr I2								
17	Website:										
18	Objective of the Course:	Microorg Factors Microorg	The History of Food Microbiology, Important ganisms in Foods, Microbial Contamination Sources, Influencing Microbial Growth in Foods, Indicator ganisms in Foods, Microbial Food Poisoning, Principles of esservation and Microbial Spoilage of Foods.								
19	Contribution of the Course to Professional Development:										
20	Learning Outcomes:										
		1	The student learns The History of Food Microbiology.								
		2	The student learns Factors Influencing Microbial Growth in Foods.								
		3	The student learns Important Microorganisms in Foods.								
		4	The student learns Microbial Contamination Sources.								
		5	The student learns Control of Microbial Growth in Foods.								
		6	The student learns Microbial Spoilage of Foods.								
		7	The student learns Microbial Food Poisoning.								
		8	The student learns The Techniques for The Microbiological Examination of Foods.								
		9	The student learns the Method of Gram Staining.								
		10	The student can use the light microscope.								
21	Course Content:										
	Course Content:										
Week	Theoretical		Practice								
1	Relationship Between Microorganisr Foods	ms and	Text Books								
2	Important Microorganisms in Foods (Bacteria) Text Books										

3	Important Microorganisms in Foods (and Molds)	Yeasts	Text Books							
4	Microbial Contamination Sources		Text Books							
5	Factors Influencing Microbial Growth	in Foods	Text Books							
6	Indicator Microorganisms in Foods		Text Books							
7	Repeating courses and midterm example	m								
8	Microbial Food Poisoning		Text Books							
9	Prevention of Microbial Contamination Removal of Microorganisms, The con Microbial Growth		Text Books							
10	Spoilage of Meat and Meat Products		Text Books							
11	Spoilage of Milk and Milk Products		Text Books							
12	Spoilage of Egg and Egg products Spoilage of Vegetables and Fruits		Text Books							
13	Spoilage of Canned Foods		Text Books							
14	Spoilage of Cereals and Cereal base products Spoilage of Fermented Alcoholic Bev		Text Books							
22	Textbooks, References and/or Other Materials:		1-Gıda Mikrobiyolojisi 3. Baskı. Editörler Prof. Dr. Adnan Ünlütürk ve Prof. Dr. Fulya Turantaş (2003) META Yayınevi 2-Gıda Mikrobiyolojisi, Gıda Endüstrisi için Temel Esaslar ve Uygulamaları. Klaus Pichharidt (Ed. Yılmaz Sekin, Nural Karagözlü) (2004) Literatür Yayınevi 3- Merck Mikrobiyoloji El Kitabı (Hızlı Erişim) A.K. Halkman, Ö.E. Sağdaş (2010), Ankara 4- Food Microbiology: Fundamentals and Frontiers. Michael P. Doyle, Larry R. Beuchat, Thomas J. Montville (Eds) ASM Press Washington, (1997). 5- Food Hygiene Microbiology and HACCP 3 rd Edition S.J. Forsythe and P.R. Hayes (1998) Aspen Publication. 6- Bacillus subtilis and Its Closest Relatives: from Genes to Cells Abraham L. Sonenshein, James A. Hoch, and Richard M. Losick (1999) ASM Press							
23	Assesment									
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT							
Midtern	n Exam	1	40.00							
Quiz		0	0.00							
	vork-project	0	0.00							
Final E	<u> </u>	1	60.00							
Total		2	100.00							
	ution of Term (Year) Learning Activitions of Term (Year)	es to	40.00							
Contrib	ution of Final Exam to Success Grade	9	60.00							
Total			100.00							
Measur Course	ement and Evaluation Techniques ปร	sed in the								
24	ECTS / WORK LOAD TABLE									

Activites	vites							١	Numb	er		Dura	ition ((hour)	Total Work Load (hour)		
Theoretical										2.00					28.00		
Practicals/Labs									4			2.00			28.00		
Self study and preperation								1	3			4.00			52.00		
Homeworks								0)			0.00		0.00			
Projects								О)			0.00			0.00		
Field Studie	es							O	0			0.00			0.00		
Midterm exams								1	1			20.00	20.00			20.00	
Others								О	0			0.00	0.00			0.00	
Final Exam	s							1	1 22.00					22.00			
Total Work Load														150.00			
Total work load/ 30 hr															5.00		
ECTS Credit of the Course														5.00			
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8		PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16	

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	3	3	5	0	1	1	0	3	2	0	2	2	0	0	0	0
ÖK2	2	5	5	3	1	1	0	3	2	0	2	2	0	0	0	0
ÖK3	3	5	5	3	1	1	0	3	2	0	2	2	0	0	0	0
ÖK4	3	5	5	3	1	1	0	3	2	0	2	2	0	0	0	0
ÖK5	3	5	5	3	1	1	0	3	2	0	2	2	0	0	0	0
ÖK6	0	5	5	3	1	1	0	3	2	0	2	2	0	0	0	0
ÖK7	0	5	5	3	1	1	0	3	2	0	2	2	0	0	0	0
ÖK8	3	5	5	3	1	1	0	3	2	0	2	2	0	0	0	0
ÖK9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK10	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:	ution			2	2 low		3	3 Medium		4 High			5 Very High			