LABORATORY OF FOOD MICROBIOLOGY-1									
1	Course Title:	LABORA	TORY OF FOOD MICROBIOLOGY-1						
2	Course Code:	GMD2210							
3	Type of Course:	Compulsory							
4	Level of Course:	First Cycle							
5	Year of Study:	2							
6	Semester:	4							
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:	-							
12	Language:	Turkish							
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	Prof. Dr. FİKRİ BAŞOĞLU							
15	Course Lecturers:	Prof.Dr. Fİkri BAŞOĞLU							
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi Ziraat Fakültesi Gıda Mühendisliği Bölümü 16059 Görükle/Bursa Tel: 0224 2941492 Fax: 0224 2941402 e-posta:fbasoglu@uludag.edu.tr							
17	Website:								
18	Objective of the Course:	To give information about fundamental laboratory knowledge and help students to gain required skills on food microbiology, to introduce diagnostic methods used in food microbiology.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	To have information about the rules must be followed in food microbiology laboratory, tools and sterilisation techniques used in food microbiology lab.						
		2	To have information about sampling techniques						
		3	To have information about detection of food contaminating microrganisms from different sources						
		4	To have information about cultural and microscobic enumeration techniques						
		5	To have information about isolation and identification techniques						
		6	To have information about detection methods used for indiator and pathogen microorganisms in foods						
		7							
		8							
		9							
		10							
21	Course Content:								
107	<b>T</b>	Co	purse Content:						
Week	Theoretical Practice								

			Introduction avalanation of laboratory rules followed in						
1			Introduction, explanation of laboratory rules followed in food microbiology laboratories.						
2			Introduction of culture media and equipment used in food microbiology, explanation of sterilization methods						
3			Explanation of sampling methods used for microbiological analysis						
4			Sources of food spoiling microorganisms (analysis of hands, tap water, air, etc.)						
5			Methods used for detection of microbial loads of food stuffs (I)						
6			Methods used for detection of microbial loads of food stuffs (II)						
7			Isolation and identification of food-born microorganisms						
8			Mid-term examination, repetition						
9			Diagnostic methods used for indicator and pathogen microorganisms (I)						
10			Diagnostic methods used for indicator and pathogen microorganisms (II)						
11			Microscopic counting methods (I)						
12			Microscopic counting methods (II)						
13			Microscopic counting methods (III)						
14			Applications on determination of microbial loads of different food stuffs						
22	Textbooks, References and/or Other Materials:		Gıda Mikrobiyolojisi ve Uygulamaları (Kadir Halkman) Mikrobiyolojide Sayım Yöntemleri (Velittin Gürgün, A. Kadir Halkman)						
23	Assesment								
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT						
Midterr	n Exam	1	40.00						
Quiz		0	0.00						
Home v	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	е	60.00						
Total			100.00						
Measurement and Evaluation Techniques Used in the Course									
24	ECTS / WORK LOAD TABLE								

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	0	0.00	0.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	14	1.00	14.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	10.00	10.00
Others	0	0.00	0.00
Final Exams	1	15.00	15.00
Total Work Load			77.00
Total work load/ 30 hr			2.23
ECTS Credit of the Course			2.00

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