GENERAL MICROBIOLOGY									
1	Course Title:	GENER	AL MICROBIOLOGY						
2	Course Code:	GESZ103							
3	Type of Course:	Compulsory							
4	Level of Course:	Short Cycle							
5	Year of Study:	1							
6	Semester:	1							
7	ECTS Credits Allocated:	4.00							
8	Theoretical (hour/week):	2.00							
9	Practice (hour/week):	2.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	Dr. Ögr. Üyesi NUR YÜKSEK							
15	Course Lecturers:	Meslek Yüksek okulları yönetim kurullarının görevlendirdiği öğretim elemanları							
16	Contact information of the Course Coordinator:	Öğr. Üyesi Dr. Nur YÜKSEK nuryuksek@uludag.edu.tr 0224 294 23 50							
17	Website:								
18	Objective of the Course:	To teach a brief History of Microbiology, Classification of Microorganisms, General Features of Bacteria, Molds, Yeasts and Viruses, Effects of Enviromental Factors on Growth of Bacteria, The Equipments and Items used in the Microbiological Laboratory, Preparation of Culture Media, Microscopic Examination of Microorganisms.							
19	Contribution of the Course to Professional Development:	To teach a brief History of Microbiology, Classification of Microorganisms, General Features of Bacteria, Molds, Yeasts and Viruses, Effects of Enviromental Factors on Growth of Bacteria, The Equipments and Items used in the Microbiological Laboratory, Preparation of Culture Media, Microscopic Examination of Microorganisms.							
20	Learning Outcomes:								
		1	Microbiology definition,purpose and history						
		2	Clasification of microorganisms						
		3	Morpohological and aanatomical structure of bacteria						
		4	Bacterial growth and nutritional needs.						
		5	Important microorganisims interms of Food Microbiology						
		6	Food borne parasitic infections						
		7	Bacteri that cause food poisining						
		8	Foodborne viral diseases						
		9	Sterilization and disenfection methods						
		10	Aseptic and antiseptic methods						
21	Course Content:								
		Co	ourse Content:						
Week	Theoretical Practice								

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1	A brief History of Microbiology		general rules in the general microbiology laboratuary								
2	Classification of Microorganisms		A	Aseptic technique ,basic rules and aplication.							
3	Morphology of Bacteria		Tools and equipment used in general microbiology laboratory(autoclave,pasteur oven,laminar flow,bunzen burner,incubator etc.)								
4	Morphology of the Colonies		MICROSCOPE AND FEATURES TO CONSIDER IN ITS USE.								
5	Bacterial Cell Structure(morpological)	S	terilization techniques							
6	Bacterial Cell Structure(anatomic)		D	ry sterilizatıon techniqu	Jes						
7	Repeating courses and midterm example	m	Moist steam(steam pressure)								
8	Chemical composition of Bacteria		Nutrition medium sterilization								
9	Microbial Nutrition		S	terilization principles o	f empty glassware						
10	The Growth of Bacteria in Broth and Medium, Measurement of Growth.	on Agar	N	utrition medium prepa	ration						
11	Effects of Enviromental Factors on G Bacteria	rowth of	m	ikrobiyological samplir	ng						
12	General Features of Molds		in	eculation and culture p	orinciple techniques	S.					
13	General Features of Yeasts		рі	eparation for staining	bacteria						
14	General Features of Viruses		Simple painting and Gram painting(Differential diagnosis) techniques								
22	Textbooks, References and/or Other Materials:		1- Temel Mikrobiyoloji, 2. Baskı Prof. Dr. Mustafa Arda. Medisan Yayın Serisi no 46. (2000). Medisan Yayınevi, Ankara								
Activit	es			Number	Duration (hour)	Total Work Load (hour)					
Theore	tical		4	Biology of Microorgar	ୟୋଡ଼ିଡି (7th Edition),	Baro OR, Thomas					
Practica	als/Labs		5	14	2.00	28.00					
Self stu	dy and preperation		5	f3undamentals of Mici	Boology. 4th Editio	13.91.060 dward					
Homew	vorks			0	0.00	0.00					
Project	8		S	Stoplegel (1999) Blackwed Stopience. 0.00							
Field St	tudies			0	0.00 0.00						
Midtern	n exams		al	nam L. Sonenshein, Ja	meso A. Hoch, and	Righand M.					
Others				0	0.00	0.00					
Final E	kams		(2	@15),Cağaloğlu,İstanb	4l0.00	10.00					
	/ork Load					125.00					
Tetal w	ork load/ 30 hr FARNING ACTIVITIES	NUMBE	W	FIGHT		3.83					
ECTS (Credit of the Course					4.00					
Midtern	n Exam	1	35.00								
Quiz		1 0	5.00								
	vork-project	0.00									
Final Ex	xam	60.00									
Total		3	100.00								
Contrib Succes	ution of Term (Year) Learning Activitie s Grade	es to	40.00								
Contrib	ution of Final Exam to Success Grade	Э	60.00								
Total			100.00								
Measur Course		sed in the	Measurement and evaluation is carried out according to the principle of Bursa Uludağ University Associate and Undergraduate Education Regulation.								

24 EC	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	5	2	5	3	4	4	4	4	4	4	4	3	2	0	0	0
ÖK2	5	2	5	3	1	1	1	3	4	1	4	2	2	0	0	0
ÖK3	5	4	4	3	1	1	1	3	4	1	4	2	2	0	0	0
ÖK4	5	4	5	3	3	1	5	5	5	3	4	4	2	0	0	0
ÖK5	5	3	4	3	5	4	5	5	5	5	4	5	2	0	0	0
ÖK6	5	3	4	3	4	4	5	4	5	4	4	4	2	0	0	0
ÖK7	5	3	4	3	4	5	5	5	4	4	5	4	2	0	0	0
ÖK8	5	3	3	3	4	4	4	4	4	4	5	4	2	0	0	0
ÖK9	5	3	4	3	5	4	5	5	5	5	5	5	2	0	0	0
ÖK10	5	0	4	3	5	4	5	5	5	5	5	5	2	0	0	0
		l	_O: L	earr	ning C	bjec	tive	s P	Q: P	rogra	ım Qu	alifica	tions	5	1	<u> </u>
Contrib ution Level:	ution				2 Iow		3 Medium			4 High			5 Very High			