MEDICAL MICROBIOLOGY I

1	Course Title:	MEDICAL MICROBIOLOGY I
2	Course Code:	TLTZ102
3	Type of Course:	Compulsory
4	Level of Course:	Short Cycle
5	Year of Study:	1
6	Semester:	2
7	ECTS Credits Allocated:	6.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	4.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Öğr. Gör. BÜŞRA ÇALIŞIR
15	Course Lecturers:	
16	Contact information of the Course Coordinator:	Öğr.Gör.Dr.Perihan ERKAN ALKAN perihanerkan@uludag.edu.tr, 0224.2942489, Uludağ Üniversitesi Sağlık Hizmetleri Meslek Yüksekokulu, 16059 Nilüfer, Bursa
17	Website:	
18	Objective of the Course:	Disinfection, sterilization, media preparation by applying the appropriate sampling, microbiology slide preparation and mediums is a course where the knowledge and skills.
19	Contribution of the Course to Professional Development:	Introducing microorganisms. Teaching the technique of working with microscope to the student. Teaching sterilization methods. Comprehending the media and its types and teaching the sterilization methods of the media. Giving information about dilution preparation, dilution liquids and dilution rates. Teaching microbiological sampling and culture techniques. Transfer of pure culture preparation and preservation methods. Introducing dyes and teaching dyeing methods. Biochemical tests and teaching how to evaluate the results to be obtained. Basic information about bacteria, molds and yeasts.
20	Learning Outcomes:	

	1	Disinfection According to the concept of disinfection method to know and choose the area of application, use the
	2	Know the concept of sterilization and sterilization method according to fields of application, choose, use the
	3	Medium to recognize and purposes of use to learn about the steps in preparing to apply to
	4	Take for example, to remember the damn rules, and the laboratory will be examined microbiologically, egü make an additional assumption, to grasp the relevant features and examples that should be rejected
	5	Microbiological preparation to prepare, implement and examine methods of paint
	6	Specimens and cultures of different qualities of reproduction detected er l ine b esiyer to planting, apply different methods of sowing
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		10	
21	Course Content:		
	Course Content:		
Week	Theoretical		Practice
1	Disinfection, antisepsis and sterilization concepts, methods of disinfection		Personal disinfection and disinfection of equipment and environment
2	Sterilization methods		Pressurized steam and dry heat sterilization
3	Low-temperature sterilization methods,		Tindalization, coagulation and sterilization by filtration
4	Use of Chemical sterilanlar		Sterilization monitoring organızation
5	The structure of bacteria, the metabolism		Preparation and sterilization of the medium,
6	Growth of bacteria, nutrient needs,		Culture medium additives and loss
7	Mediums		Quality control and storage
8	Sampling methods, sample handling and storage criteria		Sampling methods
9	Example accept the rejection criteria		Sampling methods
10	And detection methods for the preparation of		Simple painting, staining methods, and gram stain combined
11	General rules of planting		Example of solid and liquid medium cultivation cultivation Ivi sample record medium, sowing methods, sowing medium in the tube
12	Mediums and their intended use		Aerobic and anaerobic incubation
13	Mediums and their intended use		Liquid medium, medium plate and tube evaluation of sowings
14	Colony morphology and changes in medium		Assessment of colony morphology and hemolysis
22	Textbooks, References and/or Other Materials:		1- Hemşireler için Mikrobiyoloji. M. Altındiş (editör) Nobel Tıp Kitapevleri, Nobel Matbaacılık, İstanbul, 2010. ISBN:978-975-420-746-0 2- Temel Mikrobiyoloji ve Parazitoloji K.Kılıçturgay (editör) Güneş&Nobel Tıp Kitapevleri, Hünkar Ofset, İstanbul,1996. 3- İmmunıoloji. K. Kılıçturgay Güneş&Nobel Tıp Kitapevleri, Hünkar Ofset, İstanbul, 1997.
23	Assesment		

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	60.00
Total	2	100.00
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		Examination

24	**ECTS / WORK LOAD TABLE**

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	4.00	56.00
Self study and preperation	14	2.00	28.00
Homeworks	7	4.00	28.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	14.00	14.00
Others	0	0.00	0.00
Final Exams	1	26.00	26.00
Total Work Load			180.00
Total work load/ 30 hr			6.00
ECTS Credit of the Course			6.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	**PQ2**	**PQ3**	**PQ4**	**PQ5**	**PQ6**	**PQ7**	**PQ8**	**PQ9**	**PQ10**	**PQ11**	**PQ12**	**PQ13**	**PQ14**	**PQ15**	**PQ16**
ÖK1	5	1	5	1	1	1	2	2	4	1	1	1	0	0	0	0
ÖK2	5	1	5	1	1	1	2	2	4	1	1	1	0	0	0	0
ÖK3	5	1	2	4	4	4	3	3	2	1	1	1	0	0	0	0
ÖK4	5	5	1	1	1	1	1	2	2	3	1	1	0	0	0	0
ÖK5	5	1	5	1	1	2	1	1	2	1	1	1	0	0	0	0
ÖK6	5	1	1	1	1	1	1	3	3	1	1	1	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**