	DIAGNOSTIC ME	THO	OS IN MICROBIOLOGY-I							
1	Course Title:	DIAGNOSTIC METHODS IN MICROBIOLOGY-I								
2	Course Code:	TMK5002								
3	Type of Course:	Compulsory								
4	Level of Course:	Second Cycle								
5	Year of Study:	1								
6	Semester:	2								
7	ECTS Credits Allocated:	5.00								
8	Theoretical (hour/week):	1.00								
9	Practice (hour/week):	4.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	To be successful in Diagnostic Methods in Microbiology I								
12	Language:	Turkish								
13	Mode of Delivery:	Face to face								
14	Course Coordinator:	Prof. Dr. Cüneyt ÖZAKIN								
15	Course Lecturers:									
16	Contact information of the Course Coordinator:	ozakin@uludag.edu.tr, 0224.2954115, Uludağ Üniversitesi tıp Fakültesi Temel Tıp Bilimleri Binası, Tıbbi Mikrobiyoloji Anabilim Dalı, 16059 Nilüfer, Bursa								
17	Website:									
18	Objective of the Course:	To learn about fast, automated identification and sensitivity test methods, systems, molecular diagnosis and epidemiological analysis techniques in microbiology and to make applications specific to their areas of use.								
19	Contribution of the Course to Professional Development:	Integrating theoretical knowledge with clinical laboratory practice.								
20	Learning Outcomes:									
		1	To know the methods used for diagnosis in microbiology,							
		2	To be able to select and apply the appropriate diagnostic method for microbiological diagnosis							
		3	To interpret the results obtained from the diagnostic methods							
		4	To be able to compare microbiological diagnostic methods							
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		6								
		7								
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		10								
21	Course Content:									
10/- 1	Course Content:									
	Theoretical		Practice							
1	Direct Diagnosis in Microbiology- Mi Diagnosis; Light Microscopy and Ele Microscopy		Bacteriology: Plaque reading and simple definitions							
2	Direct Diagnosis in Microbiology- Cu Gram positive cocci and their identif		Bacteriology: Panel evaluation, biochemical properties							

3	Direct Diagnosis in Microbiology- Cu Gram negative bacilli and their defini		Bacteriology: Maldi TOF MS							
4	Direct Diagnosis in Microbiology- Cu Gram positive bacilli and their definit		Tüberküloz: Mikroskopi; Flouresan ve EZN boyama yöntemi							
5	Direct Diagnosis in Microbiology- Cu Gram positive bacilli and their definit		Mikoloji: Mikroskopi, makroskopi, germ tüp ve şeker asimilasyon testleri							
6	Direct Diagnosis in Microbiology- Nu Amplification	cleic	Parasitology: Microscopy, macroscopy and Trichrome staining							
7	Direct Diagnosis in Microbiology- Hybridization		ELISA: Macro ELISA method							
8	Maldi TOF MS method		E	ELISA: Micro ELISA and ELFA technique						
9	Flow Cytometry Methods		S	erology: Aglutination, i	ndirect hemagglutir	ation				
10	Indirect Diagnosis in Microbiology- A and Antibody	ntigen	S	erology: Complement	fixation test, Nefolo	metric method				
11	Indirect Diagnosis in Microbiology- Precipitation, Agglutination		In	nmunology: Flow cytor	netry					
12	Indirect Diagnosis in Microbiology- Neutralization, Complement fixation	test	In	nmunology: Autoantibo	odies					
13	Indirect Diagnosis in Microbiology- E Immuno Assay (EIA, ELISA, ELFA)	nzyme	PCR: Amplification							
14	Indirect Diagnosis in Microbiology-		PCR: Real Time PCR							
Activit	ies		-	Number	Duration (hour)	Total Work Load (hour)				
Theore	Materials:		Υ	olken RH (Eds). Manu	a of Clinical Microb	iစုမှာဗ္ဗမ္ဗ 8th				
Practic	als/Labs		11-	dition ASM Press Was 14	4.00	56.00				
Self stu	dy and preperation		TH 3	арабоок 2nd Edition. / Brooks GF. Carroll K	SW Press Washin	9100 UC (2004) 54 Jawetz				
Homev	vorks			2	15.00	30.00				
Project	8		IV	CGraw-HIII Comp. US/	0.00	0.00				
Field S	tudies			0	0.00	0.00				
Merkto r (LEAXENING ACTIVITIES	NUMBE	W	е іднт	0.00	0.00				
Others				0	0.00	0.00				
Final E	xams	0	0.	90	20.00	20.00				
Total V	Vork Load					148.00				
Home Total w	work-project ork load/ 30 hr	U	0.	00		4.93				
ECTS	Credit of the Course	•	1.			5.00				
Total		1	10	00.00						
	oution of Term (Year) Learning Activiti ss Grade	es to	0.	.00						
Contrib	oution of Final Exam to Success Grade	9	100.00							
Total			1(100.00						
Measu Course	rement and Evaluation Techniques Us	sed in the	Classical exam is done.							
24	ECTS / WORK LOAD TABLE									
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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	2	0	2	1	1	5	0	1	0	0	0	0	0	0	0	0
ÖK2	2	0	1	1	2	5	0	1	2	0	0	0	0	0	0	0
ÖK3	2	1	0	1	2	4	0	1	0	0	0	0	0	0	0	0
ÖK4	2	2	2	2	2	2	0	1	1	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:				2 Iow		3 Medium			4 High				5 Very High			