1	Course Title:		ANTIMICROBIAL EFFECTS AND MECHANISMS OF RESISTANCE								
2	Course Code:	TMK6									
3	Type of Course:	Option	Optional								
4	Level of Course:	Third (
5	Year of Study:	1									
6	Semester:	1									
7	ECTS Credits Allocated:	5.00									
8	Theoretical (hour/week):	2.00									
9	Practice (hour/week):	0.00									
10	Laboratory (hour/week):	0									
11	Prerequisites:	Option	nal								
12	Language:	Turkis	h								
13	Mode of Delivery:	Face t	o face								
14	Course Coordinator:	Prof. [Dr. EMİN HALİS AKALIN								
15	Course Lecturers:	Prof D Prof D	Prof Dr Halis Akalın Prof Dr Sibel Gürün Prof Dr Cüneyt Özakın Doç Dr Melda Sınırtaş								
16	Contact information of the Course Coordinator:	0224 2 Uluda	halis@uludag.edu.tr 0224 295 0315 Uludağ Üniversitesi Tıp Fakültesi Enfeksiyon Hastalıkları Anabilim Dalı 16059 Görükle Bursa								
17	Website:	http:/www.uludag.edu.tr									
18	Objective of the Course:	to com	Be able to classify the antibiotics and synthetic antimicrobial agents, to comprehend the mechanisms of action of antimicrobials and bacterial resistance mechanisms developed against them								
19	Contribution of the Course to Professional Development:										
20	Learning Outcomes:										
		1	To classify the antimicrobials and to learn the historical development of antibacterial treatment								
		2	To learn the antibacterials and mechanisms of effect								
		3	To learn the concepts of MIC, MBC, bacteriostatic and bactericidal effects								
		4	To learn the pharmacokinetic and pharmacodynamic of antibacterials								
		5	To learn and comment the in vitro susceptibility tests								
		6	To learn and comment the in vitro synergy tests								
		7	To understand the public health problems due to antibacterial resistance								
		8									
		9									
		10									
21	Course Content:	,									

1	Antimi	cro	bials:	Over	/iew												
2	Antiba	cte	rials a	and m	echar	isms o	of effec	ct									
3	Beta-la	acta	ams						Т								
4	Macrolides																
5	Amino	gly	cosid	es					Т								
6	Quino	lon	es														
7	Glyco	tides															
8	Tetrac	ines a	and oth	ners													
9	Development of resistance to antibacterials and resistance mechanisms																
10	In vitro antibacterial susceptibility tests																
11	In vitro	o ar	ntibac	terial s	syner	gy tests	3										
12	Pharmacokinetic and pharmacodynamic of antibacterials																
13	From	labo	orator	y to cl	inic. V	Vork w	ith tog	ether									
14	Stewa	rds	hip of	antib	acteri	al usag	je										
22	Materials:									Murray PR, Rosenthal KS, Pfaller MA. Medical Microbiology. 6th ed. Philladelphia:Mosby 2010 Mandell GL, Bennett JE, Dolin R. Principle and Pract Infectious Diseases. 7th ed. Churchill-Livingstone-Elsevier 2010.							
Activit	Activites								1	Numb	er		Dura	ition (· ,	Total Work Load (hour)	
Midtere	n Exam	1					1		40	Q O			2.00			28.00	
Practic	als/Lab	s							(0					0.00		
5emst	yyyrk <u>a</u> ny	iqje	epera	tion			0		0.0	0						102.00	
Homew	vorks									0						0.00	
Profect	s						2		10	100.00						0.00	
Field S									()			0.00			0.00	
Midterr	n exam	is_			_				1				10.00			10.00	
Others	Others												0.00			0.00	
FMal E	FMal Exams												10.00			10.00	
	Total Work Load															150.00	
Total work load/ 30 hr																5.00	
ECTS (Credit o	of th	ne Co	urse												5.00	
25			(CON	TRIE	UTIO	N OI				OUTC		S TO I	PROC	GRAM	ME	
	P	ຊ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16
ÖK1	0		0	0	0	0	0	3	5	0	0	0	0	0	0	0	0
ÖK2	0		0	0	0	0	0	4	5	0	0	0	0	0	0	0	0
ÖK3	0		0	0	0	0	0	3	5	0	0	0	0	0	0	0	0

ÖK4

ÖK5	0	0	0	0	0	0	3	5	3	0	0	2	0	0	0	0	
ÖK6	0	0	0	0	0	0	3	5	3	0	0	2	0	0	0	0	
ÖK7	0	0	0	0	0	0	2	5	0	0	0	0	0	0	0	0	
LO: Learning Objectives PQ: Program Qualifications																	
Contrib ution Level:	ution				2 low			3 Medium			4 High			5 Very High			