

DEPARTMENT OF MOLECULAR BIOTECHNOLOGY COURSE SYLLABUS

Course Details									
Code					Ac	Academic Year			Semester
MBT204					2	2			4
Title							Α	L	ECTS
Microbiology I					2		1	2	6
Language	German								
Level	Undergraduate	х	X Graduate			Postgra			duate
Department / Program	Molecular Biotechnology								
Forms of Teaching and Learning	Face-to-Face								
Course Type	Compulsory		x			Elective			
Objectives	Having an understanding of diversity and physiology of microorganisms.								
Content	 Structure of bacterial cell, cell membrane Biology of fungi Bacterial virology Genetics of bacteria Living environments of bacteria and their adaptations to these Bacterial metabolism Photosynthesis in bacteria Transportsystems Pathogenic microorganisms 								
Prerequisites	-								
Coordinator	Prof. Dr. Michael Steinert								
Lecturer(s)	Prof. Dr. Michael Steinert								
Assistant(s)	Research Assistant Ogün Morkoç, Research Assistant Şeyma İş								
Work Placement	-								
Recommended or Required R	eading								
Books / Lecture Notes	Allgemeine Mikrobiologie, Georg Fuchs, Georg-Thieme Verlag Lecture notes								
Other Sources									
Additional Course Material									
Documents									
Assignments									
Exams									
Course Composition									
Mathematics and Basic Sciences		%						%	



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Engineering				%					
Engineering D	esign		%						
Social Science	es			%					
Educational S	ciences		%						
Natural Scien	ces	10	%						
Health Science	es		%						
Expert Knowle	edge	10	%						
Assessment									
Ac	ctivity	Cou	Percentage (%)						
Midterm Exar	n	1	20						
Quiz		0	0						
Assignments	0			0					
Attendance	nce 0			0					
Recitations		0	0						
Projects	1			40					
Final Exam		1	40						
			Total	100					
ECTS Points	and Work Load								
Ac	tivity	Count	Duration	Work Load (Hours)					
Lectures		14	3	42					
Self-Study		14	4	56					
Assignments		0	0	0					
Presentation , Preparation	/ Seminar	0	0	0					
Midterm Exar	n	1	10	10					
Recitations		0	0	0					
Laboratory		10	2	20					
Projects		1	10	10					
Final Exam		1	10	10					
			Total Work Load	148					
ECTS Points (Total Work Load / Hour) 5									
Learning Out	tcomes								
1	Having an und	aving an understanding of diversity, physiology and proliferation of microorganisms.							
2	Having an und	Having an understanding of microbial pathogens.							

3 Having an understanding of the interaction between different species.

Weekly Content



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1	Structure of bacterial cell, cell membrane								
2	Biology of fungi								
3	Bacterial virology								
4	Genetics of bacteria								
5	Living environments of bacteria and their adaptations to these								
6	Bacterial metabolism								
7	Photosynthesis in bacteria								
8	Transportsystems								
9	Pathogenic microorganisms								
Contribution of Learning Outcomes to Program Objectives (1-5)									
	P1	P2	P3	P4	P5	P6	P7		
1	5	4	5	5	0	5	0		
2	5	4	5	5	0	5	0		
3	5	4	5	5	0	5	0		
Contribution Lev	Contribution Level: 1: Low 2: Low-intermediate 3: Intermediate 4: High 5: Very High								
https://obs.tau.edu.tr/oibs/bologna/progLearnOutcomes.aspx?lang=en&curSunit=5707									
Compiled by:	Compiled by: Research Assistant Şeyma İş								
Date of Compilation:28.04.2022									