

## DEPARTMENT OF MOLECULAR BIOTECHNOLOGY COURSE SYLLABUS

Course Details										
Code				Acade	emic Ye	ar	Semester			
MBT474				4			8			
Title					Α	L	ECTS			
Population Genetics					2	-	6			
Language	German			_						
Level	Undergraduate	Х	Graduate		Postgraduate					
Department / Program	Molecular Biotechnology									
Forms of Teaching and Learning	Face-to-Face									
Course Type	Compulsory			Elec	tive		x			
Objectives	Having an understanding of basic principles and applications of population genetics.									
Content	Hardy-Weinberg Laws and their applications, genetic drift and effective populations size, population structure, natural selection, molecular evolution									
Prerequisites	-									
Coordinator	-	-								
Lecturer(s)	Undefined	Undefined								
Assistant(s)	-	-								
Work Placement	-	-								
Recommended or Required R	eading									
Books / Lecture Notes	Population Genetics, 2009. Matthew B. Hamilton. Wiley-Blackwell, UK.									
Other Sources										
Additional Course Material										
Documents										
Assignments										
Exams										
Course Composition										
Mathematics and Basic Sciences							%			
Engineering							%			
Engineering Design							%			
Social Sciences							%			



## **DEPARTMENT OF MOLECULAR BIOTECHNOLOGY COURSE SYLLARUS**

COURSE SYLLABUS							
<b>Educational Scien</b>	ices		%				
Natural Sciences		100	%				
Health Sciences			%				
Expert Knowledge	e		%				
Assessment							
Activit	ty	Cou	Percentage (%)				
Midterm Exam		1	40				
Quiz		0	0				
Assignments		0	0				
Attendance		0	0				
Recitations	0			0			
Projects	Projects 0			0			
Final Exam		1	60				
			Total	100			
ECTS Points and Work Load							
Activit	ty	Count	Duration	Work Load (Hours)			
Lectures		14	3	42			
Self-Study		14	2	28			
Self-Study Assignments		14 0	2 0	28 0			
-	minar						
Assignments Presentation / Se	minar	0	0	0			
Assignments  Presentation / Ser  Preparation	minar	0	0	0			
Assignments  Presentation / Ser  Preparation  Midterm Exam	minar	0 0 1	0 0 15	0 0 15			
Assignments  Presentation / Ser Preparation  Midterm Exam  Recitations	minar	0 0 1 14	0 0 15 2	0 0 15 28			
Assignments  Presentation / Ser Preparation  Midterm Exam  Recitations  Laboratory	minar	0 0 1 14 0	0 0 15 2 0	0 0 15 28 0			
Assignments  Presentation / Ser Preparation  Midterm Exam  Recitations  Laboratory  Projects	minar	0 0 1 14 0	0 0 15 2 0	0 0 15 28 0			
Assignments  Presentation / Ser Preparation  Midterm Exam  Recitations  Laboratory  Projects	minar	0 0 1 14 0 0	0 0 15 2 0 0	0 0 15 28 0 0			
Assignments  Presentation / Ser Preparation  Midterm Exam  Recitations  Laboratory  Projects		0 0 1 14 0 0	0 0 15 2 0 0 15 5 Total Work Load	0 0 15 28 0 0 0 15			
Assignments  Presentation / Ser Preparation  Midterm Exam  Recitations  Laboratory  Projects  Final Exam  Learning Outcome	es	0 0 1 14 0 0	0 0 15 2 0 0 15 5 Total Work Load	0 0 15 28 0 0 0 15 128			
Assignments Presentation / Ser Preparation Midterm Exam Recitations Laboratory Projects Final Exam  Learning Outcome	<b>es</b> To be able to u population.	0 0 1 14 0 0 1 1 14 0 ECTS Poi	0 0 15 2 0 0 15 Total Work Load ints (Total Work Load / Hour)	0 0 15 28 0 0 15 15 128 6			
Assignments Presentation / Ser Preparation Midterm Exam Recitations Laboratory Projects Final Exam  Learning Outcome	<b>es</b> To be able to u population.	0 0 1 14 0 0 1 ECTS Pointed	0 0 15 2 0 0 15 Total Work Load ints (Total Work Load / Hour)	0 0 15 28 0 0 15 15 128 6			



29.04.2022

**Date of Compilation:** 

## DEPARTMENT OF MOLECULAR BIOTECHNOLOGY COURSE SYLLABUS

2	Fixation index							
3	Genetic drift and effective population size.							
4	Models of natural selection							
5	Molecular evolution							
6	Quantitative trait variation and evolution							
Contribution of Learning Outcomes to Program Objectives (1-5)								
	P1	P2	Р3	P4	P5	P6	P7	
1	5	5	5	5	3	5	0	
2	5	5	5	5	3	5	0	
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: Research Assistant Betül Uluca								