

## DEPARTMENT OF MOLECULAR BIOTECHNOLOGY COURSE SYLLABUS

Course Details									
Code				Acad	Academic Year			Semester	
MBT365					3				
Title					Α	L	ECTS		
Ecology					0	2	6		
Language	German								
Level	Undergraduate	Х	Graduate			Postgra	duate		
Department / Program	Molecular Biotechnology								
Forms of Teaching and Learning	Face-to-Face								
Course Type	Compulsory							х	
Objectives	Gaining an understanding of fundamental principles of ecology and the relationship between living systems and the environment.								
Content	<ol> <li>Autecology, blotic and ablotic effects on organisms</li> <li>Environmental factors, temperature, humidity, salt concentration, soil chemistry</li> <li>Hydrosphere, lithosphere, atmosphere, biosphere, anthroposphere</li> <li>Demecology, demography, r/K selection, oscillations, metapopulations</li> <li>Sinecology</li> <li>Evolution</li> <li>Climate change and global warming</li> <li>Systems ecology (cybernetics)</li> </ol>								
Prerequisites	-								
Coordinator	Undefined								
Lecturer(s)	Undefined								
Assistant(s)									
Work Placement	-								
Recommended or Required Reading									
Books / Lecture Notes	Nentwig et al. (2004): Ökologie. Gustav-Fischer-Verlag								
Other Sources									
Additional Course Material									
Documents									
Assignments									
Exams									
Course Composition									

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Mathematics and Sciences	d Basic			%		
Engineering				%		
Engineering Desi	ign			%		
Social Sciences			%			
Educational Scie	nces		%			
Natural Sciences	5	10	%			
Health Sciences			%			
Expert Knowledg	ge		%			
Assessment						
Activ	Activity Count			Percentage (%)		
Midterm Exam	dterm Exam 1			40		
Quiz	0			0		
Assignments		0		0		
Attendance		0	0			
Recitations	ations 1			20		
Projects		0		0		
Final Exam		1	40			
			Total	100		
ECTS Points and	d Work Load					
ECTS Points and Activ	d Work Load <sup>r</sup> ity	Count	Duration	Work Load (Hours)		
ECTS Points and Activ Lectures	d Work Load rity	Count 14	Duration 3	Work Load (Hours) 42		
ECTS Points and Activ Lectures Self-Study	d Work Load ⁄ity	<b>Count</b> 14 14	Duration 3 3	Work Load (Hours) 42 42		
ECTS Points and Activ Lectures Self-Study Assignments	d Work Load <sup>r</sup> ity	Count           14           14           0	Duration 3 3 0	Work Load (Hours)           42           42           0		
ECTS Points and Activ Lectures Self-Study Assignments Presentation / So Preparation	d Work Load rity eminar	Count           14           14           0           0	Duration           3           3           0           0	Work Load (Hours)           42           42           0           0		
ECTS Points and Activ Lectures Self-Study Assignments Presentation / So Preparation Midterm Exam	d Work Load rity eminar	Count         14         14         0         0         1	Duration           3           3           0           0           10	Work Load (Hours) 42 42 0 0 0 10		
ECTS Points and Activ Lectures Self-Study Assignments Presentation / So Preparation Midterm Exam Recitations	d Work Load <sup>r</sup> ity eminar	Count         14         14         0         0         1         0	Duration         3         3         0         0         10         0	Work Load (Hours)           42           42           0           0           10           0		
ECTS Points and Activ Lectures Self-Study Assignments Presentation / Se Preparation Midterm Exam Recitations Laboratory	d Work Load rity eminar	Count         14         14         0         0         1         0         1         14	Duration         3         3         0         0         10         0         2	Work Load (Hours)           42           42           0           0           10           0           28		
ECTS Points and Activ Lectures Self-Study Assignments Presentation / So Preparation Midterm Exam Recitations Laboratory Projects	d Work Load ity eminar	Count         14         14         0         0         1         0         14         0         0         1         0         14         0         0         1         0         14         0         0         14         0         14         0	Duration         3         3         0         0         10         2         0         2         0	Work Load (Hours) 42 42 0 0 0 10 10 28 0		
ECTS Points and Activ Lectures Self-Study Assignments Presentation / So Preparation Midterm Exam Recitations Laboratory Projects Final Exam	d Work Load ity eminar	Count         14         14         0         0         1         0         14         0         1         0         14         0         1         0         14         0         14         0         14         0         14         0         14         0         1	Duration         3         3         0         0         10         2         0         10         110         110         110         110         110         110         110         110         110         110         110         110         110         110         110	Work Load (Hours)           42           42           0           0           10           28           0           10           10           10           110           110           110           110           110           110           110           110           110           110           110		
ECTS Points and Activ Lectures Self-Study Assignments Presentation / So Preparation Midterm Exam Recitations Laboratory Projects Final Exam	d Work Load rity eminar	Count         14         14         0         0         1         0         14         0         1         0         14         1         1         0         14         15         16         17 <t< th=""><th>Duration         3         3         0         0         10         2         0         10         2         0         10         2         10         10         2         0         10         10         10         10         10         10</th><th>Work Load (Hours)           42           42           0           0           10           28           0           10           28           0           132</th></t<>	Duration         3         3         0         0         10         2         0         10         2         0         10         2         10         10         2         0         10         10         10         10         10         10	Work Load (Hours)           42           42           0           0           10           28           0           10           28           0           132		
ECTS Points and Activ Lectures Self-Study Assignments Presentation / So Preparation Midterm Exam Recitations Laboratory Projects Final Exam	d Work Load rity eminar	Count 14 14 14 0 0 1 1 0 1 1 0 14 0 1 1 0 1 1 0 1 1 0 1 1 ECTS Poir	Duration         3         3         0         0         10         2         0         10         2         0         10         2         0         10         5         10	Work Load (Hours)         42         42         0         0         10         28         0         10         132         6		
ECTS Points and Activ Lectures Self-Study Assignments Presentation / Se Preparation Midterm Exam Recitations Laboratory Projects Final Exam	d Work Load	Count         14         14         0         0         1         0         14         0         1         0         14         0         1         0         14         0         14         0         14         0         14         0         1         ECTS Point	Duration         3         3         0         0         10         0         2         0         10         2         0         10         5         10	Work Load (Hours)         42         42         0         0         10         28         0         10         132         6		
ECTS Points and Activ Lectures Self-Study Assignments Presentation / Se Preparation Midterm Exam Recitations Laboratory Projects Final Exam Learning Outco 1	d Work Load	Count         14         14         0         0         1         0         14         0         1         0         14         0         14         0         14         0         14         0         14         0         1         ECTS Poir         erstand the interaction between	Duration         3         3         0         0         0         10         0         2         0         10         2         0         10         Total Work Load         hts (Total Work Load / Hour)         living systems and the environ	Work Load (Hours) 42 42 0 0 0 10 28 0 28 0 10 10 132 6		
ECTS Points and Activ Lectures Self-Study Assignments Presentation / Se Preparation Midterm Exam Recitations Laboratory Projects Final Exam Learning Outco 1 Weekly Conter	d Work Load	Count         14         14         0         0         1         0         14         0         1         0         14         0         14         0         14         0         14         0         14         0         1         ECTS Poir         erstand the interaction between	Duration         3         3         0         0         0         10         0         2         0         10         2         0         10         Total Work Load         hts (Total Work Load / Hour)	Work Load (Hours) 42 42 42 0 0 0 0 10 0 28 0 10 10 10 132 6		
ECTS Points and Activ Lectures Self-Study Assignments Presentation / Se Preparation Midterm Exam Recitations Laboratory Projects Final Exam Learning Outco 1 Weekly Conter	d Work Load ity eminar eminar Ability to unde	Count         14         14         0         0         1         0         14         0         14         0         14         0         14         0         14         0         14         0         14         0         15         ECTS Poir         erstand the interaction between         otic and abiotic effects on organ	Duration         3         3         0         0         10         0         2         0         10         2         0         10	Work Load (Hours) 42 42 0 0 0 0 0 10 0 28 0 10 10 132 6		



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2	Environmental factors, temperature, humidity, salt concentration, soil chemistry							
3	Hydrosphere, lithosphere, atmosphere, biosphere, anthroposphere							
4	Demecology, demography, r/K selection, oscillations, metapopulations							
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6	Evolution							
7	Climate change and global warming							
8	Systems ecology (cybernetics)							
Contribution of Learning Outcomes to Program Objectives (1-5)								
	P1	P2	Р3	P4	P5	P6	P7	
1	3	5	5	5	2	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 Şeyma İş								
Date of Compila	tion:	28.04.2022						