

DEPARTMENT OF MOLECULAR BIOTECHNOLOGY
COURSE SYLLABUS

Course Details					
Code				Academic Year	Semester
MBT365				3	5
Title	T	A	L	ECTS	
Ecology	3	0	2	6	
Language	German				
Level	Undergraduate	X	Graduate		Postgraduate
Department / Program	Molecular Biotechnology				
Forms of Teaching and Learning	Face-to-Face				
Course Type	Compulsory		Elective		X
Objectives	Gaining an understanding of fundamental principles of ecology and the relationship between living systems and the environment.				
Content	<ol style="list-style-type: none"> 1. Autecology, biotic and abiotic effects on organisms 2. Environmental factors, temperature, humidity, salt concentration, soil chemistry 3. Hydrosphere, lithosphere, atmosphere, biosphere, anthroposphere 4. Demecology, demography, r/K selection, oscillations, metapopulations 5. Sinecology 6. Evolution 7. Climate change and global warming 8. Systems ecology (cybernetics) 				
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 Basic Sciences		%
Engineering		%
Engineering Design		%
Social Sciences		%
Educational Sciences		%
Natural Sciences	100	%
Health Sciences		%
Expert Knowledge		%

Assessment

Activity	Count	Percentage (%)
Midterm Exam	1	40
Quiz	0	0
Assignments	0	0
Attendance	0	0
Recitations	1	20
Projects	0	0
Final Exam	1	40
Total		100

ECTS Points and Work Load

Activity	Count	Duration	Work Load (Hours)
Lectures	14	3	42
Self-Study	14	3	42
Assignments	0	0	0
Presentation / Seminar Preparation	0	0	0
Midterm Exam	1	10	10
Recitations	0	0	0
Laboratory	14	2	28
Projects	0	0	0
Final Exam	1	10	10
Total Work Load			132
ECTS Points (Total Work Load / Hour)			6

Learning Outcomes

1	Ability to understand the interaction between living systems and the environment
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Weekly Content

1	Autecology, biotic and abiotic effects on organisms
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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
5	Sinecology
6	Evolution
7	Climate change and global warming
8	Systems ecology (cybernetics)

Contribution of Learning Outcomes to Program Objectives (1-5)

	P1	P2	P3	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
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