

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Population and Community Ecology							
Course Code		BiO629		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit	7	Workload	178 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course the purpose of this cours community			f this course is	s to ensure th	ne students	s understandin	g the ecolog	gy of population an	d
Course Content		and fecundity	rate, life table and interspecif	s, age structi ic competition	ure and se	x ratio of popu n, parasitism,	lation, regul	pulation growth, mo ation of population concept, trophic str	s,
Work Placement N/A									
Planned Learning Activities and Teaching Methods			Explanation	(Presenta	tion), Discussi	on, Individua	al Study		
Name of Lecturer(s) Prof. Fatih Mehmet ŞİMŞEK		(

Assessment Methods and Criteria						
Method	Quantity	Percentage (%)				
Midterm Examination	1	40				
Final Examination	1	60				

Recommended or Required Reading						
1	1. Begon, M., 1. Mortimer, M., Thompson, D.J., (2000) Population Ecology, Blackwell Science, ISBN-0-632-03478-5.					
2	2. Morin, P. J,(1999) Community Ecology, Blackwell Science,ISBN-0-86542-350-4.					
3	3. Kikkava, J., Anderson, D., (1986) Community Ecology: Pattern and Process, Blackwell Science, ISBN-0-86793-264-3.					
4	4. Şişli, M.N., Çevrebilim Ekoloji, Yeni Fersa Matbaacılık, ISBN-975-94939-0-X					

Week	Weekly Detailed Cours	eekly Detailed Course Contents					
1	Theoretical	population concept					
2	Theoretical	ecological niche					
3	Theoretical	population size, population dynamics					
4	Theoretical	population growth curves, population mortality and fecundity rate					
5	Theoretical	nature of intraspecific competition, density-dependent population regulation					
6	Intermediate Exam	interspecific competition					
7	Theoretical	predation, parasitism					
8	Intermediate Exam	midterm exam					
9	Theoretical	community structure and concept					
10	Theoretical	habitat selection					
11	Theoretical	trophic structure					
12	Theoretical	food webs					
13	Theoretical	ecological succession					
14	Theoretical	biodiversity and dominance					
15	Final Exam	final exam					

Workload Calculation								
Activity	Quantity	Preparation	Duration	Total Workload				
Lecture - Theory	13	2	3	65				
Assignment	2	2	6	16				
Land Work	5	2	7	45				
Quiz	4	6	3	36				
Midterm Examination	1	6	2	8				



Final Examination	1		6	2	8	
Total Workload (Hours)					178	
			[Total Workload (Hours) / 25*] = ECTS	7	
*25 hour workload is accepted as 1 ECTS						

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Learr	ning Outcomes
1	1. the student is able to learn the concept of population
2	2. the student is able to learn the concept of community
3	3. the student is able to learn the properties of the population
4	4. the student is able to learn the properties of the community
5	5. the student is able to comprehend the ecology of populations and communities
6	6. the student is able to comprehend the importance of food webs in ecosystems

Prog	ramme Outcomes (Biology Doctorate)
1	To have enough scientific background knowledge towards a specific study and research area
2	To have an ability to identify, evaluate and develop a solution for a problem on biological aspects
3	To be able to evaluate scientific observations and results of experiments using statistical analysis methods
4	To have basic skills in areas related to field of biological studies
5	To have the ability to develop cooperation with different disciplines with the high level of social communication required for studies
6	To have knowledge of technology and use of methods and means used in biological researches
7	To have an ethical understanding which will be a guide for their investigations and publications
8	For PhD; to have European Language Portfolio C1 general level language skill
9	To be able to present and discuss own research results in accordance with scientific discipline using technological tools in scientific research environments
10	To be able to detect and evaluate economic and social impacts of an own original research results
11	To be equipped with ability of carrying out independent study in biological field
12	To be able to publish at least one an international/national peer reviewed scientific paper and/or produce or interpret an original work related to biology in order to expand the frontiers of knowledge
13	To be able to develop new approaches or adaptations to be used in solving scientific and biological problems
14	To be able to develop new understanding and approaches in order to explain a new phenomenon or a biological event under investigation
15	To have abilities and experience to create new search area through inspiration gained from subject searched

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5	L6
P1	4	5	4	5	5	5
P2	5	5	4	5	4	4
P3	3	3	5	4	3	3
P4	5	5	4	4	4	4
P5	5	5	5	4	4	4
P6	5	5	5	5	5	5
P7	5	5	5	5	5	5
P8	2	1	1	1	2	1
P9	1	1	1	1	2	2
P10	1	2	2	3	2	2
P11	5	5	5	5	5	5
P12	5	5	5	4	4	4
P13	2	2	2	2	2	1

