

# INSECT BIODIVERSITY AND EVOLUTION

1	Course Title:	INSECT BIODIVERSITY AND EVOLUTION	
2	Course Code:	BTK3625PDS	
3	Type of Course:	Optional	
4	Level of Course:	First Cycle	
5	Year of Study:	3	
6	Semester:	5	
7	ECTS Credits Allocated:	4.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	-	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Doç.Dr. NİMET SEMA GENÇER	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	e-mail:nsgencer@uludag.edu.tr tel: (90) 224 29 41 574 Uludağ Üniversitesi Ziraat Fakültesi Bitki Koruma Bölümü Görükle Kampüsü Adres :16059 BURSA/ TÜRKİYE	
17	Website:		
18	Objective of the Course:	The objective of the course is to develop graduate students to learn about Importance of Insect, diversity, ecological role, effects on natural resources, agriculture and human health, genetics, evolution, physiology, ecology, climate change, Insect biodiversity and biogeography, general features of insect biodiversity, Insect biodiversity and habitats, Diversity and evolution, Diversity and evolution, Fossil insects, Ethical and scientific issues for insect conservation	
19	Contribution of the Course to Professional Development:	To have knowledge about biological diversity, climate change and environmental protection, and to ensure that she pays attention to these issues both while practicing her profession and in her normal life	
20	Learning Outcomes:		
		1	To develop an Understanding of The Importance of Insect, diversity, ecological role, effects on natural resources, agriculture and human health, genetics, evolution, physiology, ecology, climate change
		2	To develop an understanding of Insect biodiversity and biogeography
		3	To develop an understanding of general features of insect biodiversity
		4	To develop an understanding of Insect biodiversity and habitats
		5	To develop an understanding of Diversity and evolution
		6	To develop an understanding of Fossil insects

		7	To know Ethical and scientific issues for insect conservation		
		8	To know produce solutions to problems		
		9	Creating an article, report and Project and evaluating these		
		10	To undertake responsibility about his job		
21	Course Content:				
	Course Content:				
Week	Theoretical		Practice		
1	Introduction of Insect Biodiversity and Evolution				
2	General features of insect biodiversity				
3	The Importance of Insect, diversity, ecological role, effects on natural resources, agriculture and human health, genetics, evolution, physiology, ecology, climate change				
4	Insect biodiversity in the palearctic region				
Activites			Number	Duration (hour)	Total Work Load (hour)
Theoretical			14	2.00	28.00
7 Insect biodiversity and habitats					
Practicals/Labs			0	0.00	0.00
8 Study DNA Barcoding and Insect biodiversity			8	3.00	24.00
Homeworks			1	15.00	15.00
9 DNA Barcodes and insect biodiversity Projects			0	0.00	0.00
Field Studies			0	0.00	0.00
Midterm exams			1	16.00	16.00
Others			0	0.00	0.00
Final Exams			1	40.00	40.00
12 Arthropods and the origin of insects					
Total Work Load					123.00
13 Parasitoids diversity and insect pest management					4.10
Total work load/ 30 hr					
ECTS Credit of the Course					4.00
14	Ethical and scientific issues for insect conservation				
22	Textbooks, References and/or Other Materials:		Insect Biodiversity: Science and Society Edited by Robert G. Footitt and Peter H. Adler ©2009 Blackwell Publishing Ltd. ISBN: 978-1-405-15142-9 Evolution of the Insects, David Grimaldi, Michael S. Engel, Cambridge University Press		
23	Assesment				
TERM LEARNING ACTIVITIES		NUMBER	WEIGHT		
Midterm Exam		1	30.00		
Quiz		0	0.00		

Home work-project	1	10.00
Final Exam	1	60.00
Total	3	100.00
Contribution of Term (Year) Learning Activities to Success Grade	40.00	
Contribution of Final Exam to Success Grade	60.00	
Total	100.00	
Measurement and Evaluation Techniques Used in the Course	It is evaluated according to the principles of the Associate and Undergraduate Education Regulation of Bursa Uludag University.	

## 24 ECTS / WORK LOAD TABLE

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	0	0	0	0	0	0	0	4	0	4	4	4	0	0	0	0
ÖK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	0	0	0	0	0	0	0	4	4	0	3	0	0	0	0
ÖK8	0	0	0	0	0	0	0	0	4	4	0	0	0	0	0	0
ÖK9	0	0	0	0	0	0	0	0	4	0	0	4	0	0	0	0
ÖK10	0	0	0	0	0	0	0	0	4	3	0	3	0	0	0	0
LO: Learning Objectives    PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			