



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Systematic Entomology							
Course Code		BİO638		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	8	Workload	204 ( <i>Hours</i> )	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		The aim of this course is to enable students to have detailed information about the morphological characters of insects.							
Course Content		Importance of systematics, Importance of taxonomy of insects, evolution of insect, classification and identification of insects, insect biodiversity, sampling or catching insects, preparation of insects, insect morphology, diagnostic characters of insects, insect identification keys, family-level identification of insects							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion, Individual Study					
Name of Lecturer(s)									

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

### Recommended or Required Reading

1	1. Chapman, R.F., (1998) The Insects : Structure and Function, Cambrige University Press, ISBN-0-521-57048
2	2. McGavin, G.C., (2001) Essential Entomology : An order-by-order Introduction, Oxford University Press, ISBN-0-19-850002-5
3	3. Kıyak, S., (2000) Entomolojik Müze Metotları, Özgün Matbaacılık, Ankara, ISBN 975-93795-0-3

Week	Weekly Detailed Course Contents	
1	Theoretical	Evolution and biodiversity of insects
2	Theoretical	Apterygota, Pterygota insect orders
3	Theoretical	Collembola, Protura, Diplura, Thysanura
4	Theoretical	Ephemeroptera, Odonata, Zygoptera, Anisoptera, Placoptera
5	Theoretical	Dictyoptera, Blattodea, Mantodea, Isoptera
6	Theoretical	Dermoptera, Phasmida
7	Theoretical	Orthoptera: Caelifera, Ensifera
8	Theoretical	Families of Orthoptera
9	Theoretical	Mallophaga, Anoplura, Siphonoptera
10	Theoretical	Hemiptera and Homoptera
11	Theoretical	Families of Hymenoptera
12	Theoretical	Families of Coleoptera
13	Theoretical	Diptera and families
14	Final Exam	Final exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	2	2	52
Lecture - Practice	13	2	2	52
Assignment	2	9	2	22
Seminar	2	0	10	20
Term Project	1	0	10	10
Project	2	4	10	28
Quiz	4	0	3	12
Midterm Examination	1	2	2	4



Final Examination	1	2	2	4
Total Workload (Hours)				204
[Total Workload (Hours) / 25*] = ECTS				8
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	1. The student is able to comprehend the importance of insects in terms of life in world.
2	2. The student is able to learn the insect biodiversity.
3	3. The student is able to learn the methods used in sampling or catching insects.
4	4. The student is able to learn the diagnostic characters of insect orders.
5	5. The student is able to distinguish families of insects.
6	The student is able to learn the insect species identification keys.

### Programme 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	5	5	5	5	5	5
P2		5	5	5	5	5
P4	4	2	3	3	2	3
P5	5	5	5	5	5	5
P6	5	5	5	4	4	4
P7	2	1	1	1	2	1
P8	5	5	5	5	5	5
P9	5	5	5	5	5	5
P10	1	1	1	2	2	1
P11	2	1	1	1	2	1
P12	2	1	1	1	2	1
P13	3	2	2	3	2	3
P14	4	2	3	3	2	3
P15	1	2	3	3	3	3

