



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Collecting and Sampling Methods of Insects and Their Collections							
Course Code		ZBK534		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	8	Workload	200 (<i>Hours</i>)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		the aim of this course is to teach the principles of sampling technics and collecting and preserving of insects and also to explain that how we can use data from samplings in plant protection knowledge of preparing insect collections and maintaning technics .							
Course Content		Sampling, and maintaining insect collections, information about preserving insects. Additionally, sampling methods for different insect groups, mistakes in samplings, data evaluations from sampling results in computer							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion, Case Study, 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	Borror, D.J. and White, R.E. (1970). A Field Guide to the Insects of America North of Mexico. OU Press.Sokal, R. R. and Rohlf, F. J., 1973. Introduction to Biostatistics. W. H. Freeman and Co., San Fransisco.
2	Borror, D.J. and D.M. DeLong, 1970. An Introduction to the Study of Insects. 812 pp.

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction and definitions
2	Theoretical	Tools for collecting insects
3	Theoretical	Pinning and labelling insects
4	Theoretical	Characteristics of insect boxes and box cabinets
5	Theoretical	Importance of insect collections in Entomological studies
6	Theoretical	Preserving and maintenance of collection of insects
7	Intermediate Exam	Mid Term Exam
8	Theoretical	Determination of sampling period and time, number of samples and duration for samplings
9	Theoretical	Sampling of insects on annual, perennial , and green house plants
10	Theoretical	Zararlıların bitki kısımlarında bulunma yerleri ve davranışlarına göre örnekleme yöntemlerinin seçimi ve uygulaması
12	Theoretical	Mis-sampling and affecting factors
13	Theoretical	Statistics in sampling
14	Theoretical	Computer in sampling
15	Theoretical	General review
16	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Lecture - Practice	14	2	2	56
Term Project	1	28	14	42
Midterm Examination	1	20	1	21



Final Examination	1	24	1	25
Total Workload (Hours)				200
[Total Workload (Hours) / 25*] = ECTS				8
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	to be able to recognize the collecting methods of insects for entomological studies
2	to be able to recognize how to use sampling techniques
3	to be able to analyse data evaluations
4	to be able to use technical methods for collecting and preserving insects
5	

Programme Outcomes (Plant Protection Master)

1	To develop knowledge and abilities that gained during undergraduate education
2	To gain ability to search and pursue current literature
3	To gain ability to plan and write projects that help solving problems in field of study.
4	To gain ability to conduct research, analyze data, evaluate research results scientifically and prepare reports and thesis writing.
5	Students will be able to learn and apply the laboratory test and analysis methods
6	To recognize occupational and ethical responsibility

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

	L1	L2	L3	L4	L5
P1	2	2	2	2	2
P2	3	3	3	3	3
P3	4	3	3	3	3
P4	4	4	4	3	3
P5	3	3	4	4	4
P6	3	3	4	3	3

