



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Biometry in Plant Protection							
Course Code		ZBK537		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	8	Workload	198 ( <i>Hours</i> )	Theory	2	Practice	2	Laboratory	0
Objectives of the Course		The aim of this course is to provide students basic information to plan and design trials, to make observations and to take and evaluate data.							
Course Content		The course includes statistical definitions, regression-correlation analysis, t-test, F-test, X2 test, transformations and analyze of frequency.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Case Study					
Name of Lecturer(s)		Prof. Hüseyin BAŞPINAR							

### Assessment Methods and Criteria

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

### Recommended or Required Reading

1	Meliha KARMAN, 1971. Bitki Koruma Araştırmalarında Genel Bilgiler Denemelerin Kuruluşu ve Değerlendirme Esasları. T.C. Tarım Bakanlığı, Zirai Mücadele ve Zirai Krantina Genel Müdürlüğü Yayınları Mesleki Kitaplar Serisi, 279 s.
2	Sokal, R. R. and Rohlf, F. J., 1973. Introduction to Biostatistics. W. H. Freeman and Co., San Fransisco.

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction and general properties
2	Theoretical	Sampling, collecting and compilation of data, experimental design
3	Theoretical	Average, median and mode, population distributions
4	Theoretical	Estimation of percent effects in biological effect of pesticides
5	Theoretical	Design of single and multi factor experiments and their properties
6	Theoretical	Error reducing factors
7	Intermediate Exam	Mid-Term Exam
8	Theoretical	Trials planning and data obtaining and transformations
9	Theoretical	Correlation
10	Theoretical	Regression
11	Theoretical	Statistical analyzes
12	Theoretical	Statistical analyzes
13	Theoretical	Statistical analyzes
14	Theoretical	Statistical analyzes
15	Theoretical	Frequency analyzes
16	Final Exam	Final Exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Lecture - Practice	14	3	2	70
Term Project	1	28	14	42
Midterm Examination	1	14	1	15
Final Examination	1	14	1	15
Total Workload (Hours)				198
[Total Workload (Hours) / 25*] = ECTS				8

\*25 hour workload is accepted as 1 ECTS



**Learning Outcomes**

1	to be able to use knowledge of design of trials in scientific principles
2	to be able to have true sampling for obtaining data.
3	to be able to analyze the data and conclude the results from the trials.
4	to be able to have background needed to interpret outcome for publication
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	3	4	4	4	4
P2	3	3	3	3	3
P3	5	5	5	5	5
P4	5	5	5	5	5
P5	3	3	3	3	3
P6	4	4	4	4	4

