

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Statistics in Agriculture and Biology							
Course Code	e ZZO508		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit 7	Workload	175 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course Statistical analysis of observational and research data from agriculture and biology software					ology using SPSS	statistical		
Course Content Data organization and fact simple and multiple regres design, latin square and specific contents.			ion analysis,	analysis o				
Work Placement N/A								
Planned Learning Activities and Teaching Methods					tion), Demonst al Study, Proble		ussion, Case Stud	y, Project
Name of Lecturer(s) Prof. Kadir KIZILKAYA								

Assessment Methods and Criteria						
Method	Quantity P					
Midterm Examination	1	40				
Final Examination	1	60				

Recommended or Required Reading

Düzgüneş, O., Kesici, T., Kavuncu, O., ve Gürbüz, F. 1987. Araştırma ve Deneme Metotları. AÜ Ziraat Fakültesi yayınları: 1021, Ankara
 Neter, J., Kutner, M.H., Nachtsheim, C.J. and Wasserman, W. 1996. Applied Linear Statistical Models, Irwin, USA.
 Kuehl, R.O. 2000. Design of experiment: Statistical principles of research design and analysis. Duxbury press, USA
 Rao, P.V. 1998. Statistical research methods in the life sciences. Duxbury press, USA.

Week	Weekly Detailed Course Contents					
1	Theoretical	Introduction to statistics, notations and definitions				
2	Theoretical	SPSS statistical software				
3	Theoretical	Entering data and data organizations				
4	Theoretical	Graphics from SPSS				
5	Theoretical	Transformations of data				
6	Theoretical	Correlations and regression analysis				
7	Theoretical	Multiple regression analysis				
8	Theoretical	Completely randomize design				
9	Intermediate Exam	Midterm Exam				
10	Theoretical	One-way Analysis of Variance				
11	Theoretical	Analysis of variance with multiple factors				
12	Theoretical	Completely randomize design				
13	Theoretical	Analysis of latin square				
14	Theoretical	Analysis of Split plot design				
15	Final Exam	Terms				

Workload Calculation								
Activity	Quantity	Preparation	Duration	Total Workload				
Lecture - Theory	14	1	2	42				
Lecture - Practice	14	1	2	42				
Assignment	7	4	2	42				
Midterm Examination	1	20	2	22				



Final Examination	1		25	2	27
Total Workload (Hours)					175
[Total Workload (Hours) / 25*] = ECTS					7
*25 hour workload is accepted as 1 ECTS					

Learn	ing Outcomes
1	Earning fundamental knowledge about application of statistics
2	2. Learning how to use SPSS statistical software
3	3. Experimental designs in agricultural research
4	4. Earning experiences about making experimental designs and conducting experiments
5	5. Earning experiences about collecting, organizing data for statistical analrysis
6	6. Earning experiences about analyzing research data
7	7. Earning experiences about interpreting statistical results and making decision for future plans

Progr	amme 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 preapare 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 L6 L7

						LO	
P1	3	3	3	4	4	4	3
P2	4	4	4	5	5	5	4
P3	5	5	5	5	5	5	5
P4	4	4	4	5	5	5	5
P5	5	4	4	4	4	4	5
P6	4	4	4	4	5	4	5

