AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Applied Statistics								
Course Code	ZT201		Couse Level	First Cycle (Bachelor's Degree)					
ECTS Credit	4	Workload	100 *(Hours)*	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	Provide the student with the fundamental statistical knowledge and toolbase to perform statistical data analysis								
Course Content	Theoretical and applied statistics, statistical term and notations, descriptive statistics (mean, mode, median, variance, standard deviation), statistical distributions, sampling distribution of statistics, hypothesis testing, correlations and simple regression analysis and analysis of variance								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration, Discussion, Case Study, Individual Study, Problem Solving								
Name of Lecturer(s)	Prof. Kadir KIZILKAYA								

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading	
1	Kesici, T., Kocabaş, Z. 1998. Biyoistatistik. Ankara Üni. Eczacılık Fak. Yayın No: 79.
2	Yüzer, A.F., Ağaoğlu, E., Tatlıdil, H., Özmen, A., Şıklar, E. 2004. İstatistik. Anadolu Üni. Açıköğretim Fak. Yayın No: 771.

Week	Weekly Detailed Course Contents	
1	Theoretical	Theoretical and applied statistics, statistical notations and definitions
2	Theoretical	Data types and statistical graphics
3	Theoretical	Data types and statistical graphics
4	Theoretical	Descriptive statistics (mean, mode and median, etc.)
5	Theoretical	Descriptive statistics (variance, standard deviation, etc.)
6	Theoretical	
7	Theoretical	Probability
8	Theoretical	Statistical distributions
9	Theoretical	Statistical distributions
10	Intermediate Exam	Midterm Exam
11	Theoretical	Sampling distribution of statistics, hypothesis testing
12	Theoretical	Sampling distribution of statistics, hypothesis testing
13	Theoretical	Correlations
14	Theoretical	Simple regression analysis
15	Theoretical	Analysis of variance
16	Final Exam	Final Exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Midterm Examination	1	15	2	17
Final Examination	1	25	2	27
			Total Workload (Hours)	100
			[Total Workload (Hours) / 25*] = **ECTS**	4
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	Learning about Statistics and relationships between statistics and other departments
2	Earning fundamental knowledge about application of statistics
3	Learning how to use at least one statistical package
4	Learning how to collect, organize and analyze data
5	Learning how to interpret statistical results
6	Earning the ability of decision making for future based on the statistical results
7	Earning the ability to use statistical experiences in others areas

Programme Outcomes *(Agricultural Biotechnology)*	
1	To be able to develop skills in identifying, modeling and solving problems in agricultural biotechnology
2	To be able to synthesize life and engineering sciences for the effective resource planning of agricultural biotechnology applications
3	To be able to interpret about living organisms structure, metabolic and physiological processes in order to propose biotechnological solutions to the agricultural problems
4	To be able to analyze genomic, metabolomic and proteomic information via bioinformatic tools.
5	To have the ability to analyze collected data and interpret the results.
6	To have the ability of individual working ability and to make independent decisions, to work in inter-disciplinary and interdisciplinary teamwork, to communicate by expressing their ideas orally and in writing, clearly and concisely
7	To have the awareness of professional liabilities and ethics
8	To be able to follow current national and international problems

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
P1	1	1	1	1	1	1	1
P2	4	4	3	3	3	3	3
P3	1	1	1	1	1	1	1
P4	1	1	1	1	1	1	1
P5	4	5	4	4	4	3	3
P6	3	3	3	3	4	3	3
P7	3	3	3	3	3	3	3
P8	2	3	2	3	3	2	2