STATISTICS

1	Course Title:	STATISTICS
2	Course Code:	ZOO2404
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	2
6	Semester:	4
7	ECTS Credits Allocated:	4.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	2.00
10	Laboratory (hour/week):	0
11	Prerequisites:	NONE
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. CENGİZ ELMACI
15	Course Lecturers:	Prof.Dr.Cengiz ELMACI
16	Contact information of the Course Coordinator:	Prof. Dr. Cengiz ELMACI Bursa Uludağ Üniversitesi, Ziraat Fakültesi Zootekni Bölümü Tel: 0(224)2941554 e-posta:elmaci@uludag.edu.tr
17	Website:	
18	Objective of the Course:	The purpose of this course is to teach basic statistical principals used in agriculture and biology field with their samples to the students.
19	Contribution of the Course to Professional Development:	1)They will increase productivity in the professional job by using basic statistical methods. 2)They are able some decision more objectively in production process. 3)They will show rational and successful management by benefit the statistical methods.
20	Learning Outcomes:	

	1	Having the ability of forming the hypotheses for the trials
	2	Ability to test the hypotheses
	3	Planning of the experiments
	4	Ability to appreciate the measurement and data collection methods
	5	Being able to apply the suitable statistically analyses for data
	6	Knows evaluation and interpretation of results
	7	Ability to earn skill on objective deciding
	8	Being able to apply the basic statistical technics and methods
	9	
	10	

21	Course Content:	

	Course Content:	
Week	**Theoretical**	**Practice**
1	Introduction to statistics; some definitions, population and sample	Solving problems about population and sample
2	Data and summarization of the data	Solving problems about distribution of frequency
3	Descriptive statistics	Solving problems about mean, variance, Standard deviation, Standard error, median and mode
4	Linear correlation and regression	Solving problems about linear correlation and regression
5	Test, incident and probability	Solving problems about test and probability
6	Theory of probability	Solving problems about some theory of probability
7	Chance variables and values expected	Repeating courses and midterm exam
8	Discrete probability distributions (poisson and binomial distributions)	Solving problems about poisson and binomial distributions
9	Kesiksiz değişkenlerin dağılışları	Solving problems about Normal distribution
10	Sampling distributions	Solving problems about sampling distributions
11	Test distributions (z, F, t tests and Chi-square test)	Solving problems about test distributions
12	Statistical estimation; Point estimation of population mean	Solving problems about statistical estimation
13	Estimation of some parameters and confidence interval	Solving problems about confidence interval

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	14	2.00	28.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	16.00	16.00
Others	0	0.00	0.00
Final Exams	1	20.00	20.00
Total Work Load			120.00
Total work load/ 30 hr			4.00
ECTS Credit of the Course			4.00

(Overlapping bibliographic text visible behind the Activites table:)
Ders Kitabı: 369, Ankara
No:128, VIPAŞ Yayınları 4, Uludağ Üniversitesi Basımevi, Bursa
Keşici T., Kocabaş Z., 1998, Biyoistatistik, Ankara Üniversitesi Eczacılık Fakültesi Yayın No:79, Ankara
Keskin, İ., Başpınar, E., Altay, Y., Mikail, N., 2023. Biyometri (Rstudio Uygulamalı) Necmettin Erbakan
Kocabaş Z., Özkan M.M., Başpınar E., 2018. Temel
No:1606, Ders Kitabı:558, Ankara.
Notları No: 78, Bursa.

23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	1	40.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	60.00
Total	2	100.00
Contribution of Term (Year) Learning Activities to Success Grade	40.00	
Contribution of Final Exam to Success Grade	60.00	

Total	100.00
Measurement and Evaluation Techniques Used in the Course	For assessment and evaluation, article 29 of the Bursa Uludag University Rules and Regulations governing undergraduate studies are used.

24	ECTS / WORK LOAD TABLE

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS

	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	5	4	4	5	1	5	2	0	0	2	0	3	0	0	0	0
ÖK2	4	3	2	4	0	3	4	0	0	0	0	2	0	0	0	0
ÖK3	3	2	3	3	0	4	2	0	1	0	0	2	0	0	0	0
ÖK4	3	2	0	3	0	2	2	0	1	0	0	1	0	0	0	0
ÖK5	1	4	0	2	0	5	4	0	0	0	0	1	0	0	0	0
ÖK6	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0
ÖK7	2	4	0	0	0	2	1	0	5	0	0	1	0	0	0	0
ÖK8	4	2	2	3	0	2	2	0	0	2	0	2	0	0	0	0

LO: Learning Objectives   PQ: Program Qualifications

Contribution Level:	1 very low	2 low	3 Medium	4 High	5 Very High