STATISTICS FOR AGRICULTURAL ECONOMICS

1	Course Title:	STATISTICS FOR AGRICULTURAL ECONOMICS
2	Course Code:	TEK3729
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	3
6	Semester:	5
7	ECTS Credits Allocated:	3.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	2.00
10	Laboratory (hour/week):	0
11	Prerequisites:	-
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. HASAN VURAL
15	Course Lecturers:	Prof.Dr. Serkan GÜRLÜK
16	Contact information of the Course Coordinator:	Prof.Dr.Hasan Vural hvural@uludag.edu.tr 2941589 B.U.Ü.Ziraat Fakültesi Tarım Ekonomisi Bölümü
17	Website:	
18	Objective of the Course:	Application of statistics methods at agricultural economics
19	Contribution of the Course to Professional Development:	Economic and social problem solving and evaluation competencies are developed.
20	Learning Outcomes:	
	1	To be able to explain application areas of statistics in agricultural economics
	2	To be able to arrange a data set, make meaningful inferences and present data in graphical style
	3	To be able to make interprets through central tendency measures and dispersion measures
	4	To be able to test whether a data set belongs to a greater population
	5	To be able to make inferences about whether variables in two data sets have statistically relationships each other in the agricultural economics researches
	6	To be able to compute statistical significance and set different functional forms in the agricultural economics researches
	7	To be able to interpret statistical model results and make policy implications regarding agricultural economics researches

		8	To be able to analyze time series seen in the agricultural economics and make forecasts
		9	To be able to use indexes seen in the agricultural economics area
		10	
21	Course Content:		
	Course Content:		
Week	Theoretical		Practice
1	Fundamental of statistics and study areas in the agricultural economics		Uses of Excel software in arrangements of data
2	Organizing and arranging of data and distribution of frequency		Uses of Excel software in arrangements of data
3	Application of central tendency measurements in researches regarding agricultural economics		Introduction to SPSS software and calculation of measurement of central tendency
4	Measurement of dispersion and uses in researches regarding agricultural economics		Estimation of dispersion measurements through SPSS statistics software
5	Probability theory and normal distribution		Defining of deviations from normal distribution and normalization through SPSS statistics software
6	Statistical test distribution and applications in researches regarding agricultural economics		Defining of statistical test distributions through SPSS statistics software
7	Correlation analysis in researches regarding agricultural economics		Correlation analysis through SPSS statistics software
8	Linear regression analysis with different functional types that used in researches		Regression analysis in different functional forms through SPSS statistics software
9	Statistical time series		Time series analysis through SPSS statistics software
10	Statistical indexes		Data analysis of research data examples
11	Calculation methods of indexes in agricultural economics data		Course Review
12	Fluctuations in agricultural economics data		
13			
14			

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	1	2.00	2.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	2.00	2.00
Others	0	0.00	0.00
Final Exams	1	2.00	2.00
Total Work Load			92.00
Total work load/ 30 hr			3.00
ECTS Credit of the Course			3.00

22	Textbooks, References and/or Other Materials:	Köksal, B., 1998. İstatistik Analiz Metodları. Çağlayan Kitabevi, İstanbul, 571s. (In Turkish) Vural, H. 2012. Tarım ve Gıda Ekonomisi İstatistiği. Uludağ Üniversitesi Ziraat Fakültesi Ders Notları No: 107. (In Turkish) Kalaycı, Ş. 2006. SPSS Uygulamalı Çok Değişkenli İstatistik Teknikleri, Asil Yayın Dağıtım, Ankara, 425s. (In Turkish)
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	1	30.00

Quiz	0	0.00
Home work-project	1	10.00
Final Exam	1	60.00
Total	3	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		Understanding the subject is measured with written exams and assignments.

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	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	3	3	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	2	2	0	3	0	0	0	0	0	0	0
ÖK5	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	5	4	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	0	0	0	0	3	5	0	0	0	0	0	0	0	0	0
ÖK8	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	0
ÖK9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

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