ECONOMETRICS

1	Course Title:	ECONOMETRICS	
2	Course Code:	TEK3724	
3	Type of Course:	Compulsory	
4	Level of Course:	First Cycle	
5	Year of Study:	3	
6	Semester:	6	
7	ECTS Credits Allocated:	3.00	
8	Theoretical (hour/week):	1.00	
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:	Öğr.Gör. MUSTAFA AKSÜYEK	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	E-posta: maksuyek@uludag.edu.tr Uludağ Üniversitesi, Ziraat Fakültesi, Tarım Ekonomisi Bölümü C Blok, K:3 16059 Görükle Yerleşkesi / Bursa 0.224.2941593	
17	Website:		
18	Objective of the Course:	The aim of this course is to enable the students to examine the relationships between variables according to economic theories, to estimate the relating models, to make statistical tests of the models and to use these findings for decision making purposes. In addition, it is targeted to equip the students with the ability to detect/overcome the basic regression errors and to make predictions for future.	
19	Contribution of the Course to Professional Development:	It can identify the variables of an economic event and model it simply. Can calculate economic parameters (elasticities, marginal trends, etc.) to aid decision making. Can evaluate economic policies with the help of econometric methods. Can estimate the future values ??of economic variables with simple econometric methods.	
20	Learning Outcomes:		
		1	Ability of proving economic theory by the use of mathematical and statistical methods.
		2	Determining the variables in complex decision making problems and building mathematical relationships.
		3	Forecasting the future.
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21	Course Content:		

	Course Content:	
Week	Theoretical	Practice
1	Definition of econometrics , Fields of application, Stages of econometric research.	Guided problem solving
2	Economic and econometric models.	Guided problem solving
3	Linear regression with a single explanatory variable.	Guided problem solving
4	Deterministic and probabilistic models, Estimation of regression model, Decomposition of the variability in to its components, Assumptions of Linear Regression Model.	Guided problem solving
5	Multivariate linear regression.	Guided problem solving
6	Estimation of multivariate regression models.	Guided problem solving
7	Goodness of fit Properties of the Estimators Goodness of fit of a model Estimating OLS by using matrices .	Guided problem solving
8	Repeating courses. Questions about applications.	Guided problem solving
9	Model definition What kind of modeling? Principles of model definition Selection of independent variables Omitted variables Unnecessary variables .	Guided problem solving
10	Modelling in common mathematical forms.	Guided problem solving
11	Linear form Inverse function Semi-logarithmic	Guided problem solving
13	Models with dummy and limited dependent variables	Guided problem solving
14	Prediction Moving average Weighted moving average Exponential smoothing Trend	Guided problem solving
22	Textbooks, References and/or Other Materials:	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	1.00	14.00
Practicals/Labs	14	2.00	28.00
Self study and preparation	4	5.00	20.00
Homeworks	2	4.00	8.00
Projects	4	4.00	16.00
Field Studies	0	0.00	0.00
Midterm Exams	1	1.00	1.00
Others	0	0.00	0.00
Midterm Exam	1	1.00	1.00
Final Exams	1	1.00	1.00
Quiz	6	15.00	
Total Work Load			89.00
Home work project	2	10.00	
Total work load/ 30 hr			2.93
Final Exam	1	60.00	
ECTS Credit of the Course			3.00

MIDTERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Total	10	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	Measurement and evaluation is carried out according to the principles of Bursa uludag University Associate and Undergraduate Education Regulation.

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	0	0	0	4	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	4	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**			