Course Profile - Department of Economics

Course Number : **ECO 301**	Course Title : **Econometrics**
Required / Elective : **Required**	Pre / Co-requisites : None
Catalog Description: Nature of regression analysis. Two variable regression analysis. Ordinary least squares method. Standard errors of least-square estimates. Interval estimation model and hypothesis testing. Correlation. Multiple regression analysis. Forecasting via standard deviations. Problems and issues in estimation of regression coefficient parameters. Partial regression and correlation	Textbooks / Required Material : James H.Stock & Mark W. Watson , Introduction to Econometrics,

Course Structure / Schedule : 3+0+0   **/ 6 ECTS**

Extended Description : This course is an introductory course on econometrics. It introduces students to regression methods for analyzing data in economics and related areas. This course covers simple and multiple regression and some extensions based on the ordinary least squares method. The emphasis is on both theoretical and practical aspects of econometric analysis. The objective of this course is for the student to learn how to establish, how to conduct and evaluate emprical models in economics and related fields.

Weeks

1 Introduction to Regression Analysis

2 Stata Lab

3 Estimation; Ordinary Least Squares

4 Using Regression Analysis

5 The Classical Model

6 Hypothesis test and confidence intervals

7 Hypothesis test and confidence intervals

8 Review and exam

9 Specification: Independent Variables, Functional Form

9 Submit Paper Subject and Outline

10 Multicollinearity; Serial Correlation

11 Heteroscedasticity

12 Running Your Regression Project

13 Miscellaneous

14 Presentations

15 Presentations

Design content : None	Computer usage: Statistical Stofware EViews

Course Outcomes: [relevant program outcomes in brackets]:

By the end of this course, students will be able to:
I.Analyze data in economics and related areas by using regression.

II.Establish and evaluate emprical models in economics and related field

III.Estimate and evaluate an economic model based on Turkish economy and present this model.

Recommended reading:

 Micheal P. Murray, Econometrics: A modern Introduction

Teaching methods

Lecture, in class discussion, term paper, problem solving

Assessment methods:

Attendance: 10%

Midterms: 30 %

Final Examination: 45%

Project Presentation : 15%

Contribution of Course Learning Outcomes to Program Outcomes

	Program Outcomes	Level of Contribution*				
		1	2	3	4	5
1	To comprehend fundamental economic concepts, to be able to utilize those in main economic problems, avoid mistakes as employee, employer, consumer and citizen due to common misconceptions regarding fundamental economic concepts			x		
2	To comprehend growth,inflation, interest rates, foreign exchange rates, foreign investments and foreign trade in Turkish economy			x		
3	Acknowledging that there exist different schools of thought in the discipline of economics and apreciating, for example, that there may be differences of opinion about the role of the state in economic life					
4	Understanding the set/matrix of relations in the global world economy and the role of international organizations within these relation;and also analyzing the costs and benefits of mutual dependence among countries.					
5	Apprehending the professional and ethical responsibilities, recognizing the importance and implications of occupational security			x		
6	Apply statistical methods, calculus and similar methods in data analysis, Comprehend problems on humanities and social sciences and make inferences on solutions					x
7	Recognize the diversity in cultures, belief systems and life styles, question information using logical induction and deduction					
8	Ability to model the equilibrim dynamics in markets, analyze, abstract, sythnesize and interpret information					x

9	The ability to work, take initiative and lead in multidisciplinary teams					x
10	Effective communication skills by using written, verbal and visual tools					x
11	The ability to recognize life long education and participate in it as a student as well as an educator					
12	Preparing reports which evaluate the economy on sectoral and macro bases; assessing critically the publications related to the economy; being capable of identifying the dynamics of and following the developments in the market, stock exchange markets, exchange rate markets, supply and demand; collecting and analyzing data on different fields of economics and interpreting them using statistical and econometric techniques and required software programs; equipping with good skills of presenting the findings; efficient note taking; asking the necessary questions to achieve, utilize and transfer information.					x
13	Apprehending the role and importance of environment and environmental sustainability					
	Level of Contribution* 1= Least 5 = Highest					

Student Workload/ECTS (European Credit Transfer System) Tableau:		
Activity:	Number:	Total Workload (hour):
Pre- reading	14	30
Lectures	14	45
Problem Solving	10	30
Exams	2	5
Project	1	40
TOTAL 150/25=6 ECTS		

Prepared by : Çağla Özsoy	Revision Date :