

**ECTS COURSE INFORMATION FORM**

<b>School/Faculty/Institute</b>	<b>Faculty of Economics, Administrative and Social Sciences</b>		
<b>Program</b>	<b>B.A. in Economics</b>	<b>Required</b>	

<b>Course Code</b>	<b>ECON 301</b>			
<b>Course Title in English</b>	<b>Econometrics I</b>			
<b>Course Title in Turkish</b>	<b>Ekonometri I</b>			
<b>Language of Instruction</b>	<b>English</b>			
<b>Type of Course</b>	<b>Lecture (Flipped Classroom)</b>			
<b>Level of Course</b>	<b>Undergraduate Intermediate</b>			
<b>Semester</b>	<b>Fall</b>			
<b>Contact Hours per Week</b>	<b>Lecture: 3</b>	<b>Recitation: 0</b>	<b>Lab: 0</b>	<b>Other: 0</b>
<b>Estimated Student Workload</b>	<b>132 hours per semester.</b>			
<b>Number of Credits</b>	<b>5 ECTS</b>			
<b>Grading Mode</b>	<b>Standard Letter Grade</b>			
<b>Pre-requisites</b>	<b>MATH 204</b>			
<b>Expected Prior Knowledge</b>	<b>Probability and Statistics</b>			
<b>Co-requisites</b>	<b>None</b>			
<b>Registration Restrictions</b>	<b>Only undergraduate Students</b>			
<b>Overall Educational Objective</b>	To learn the basic econometric tools and techniques.			
<b>Course Description</b>	This course aims to provide an elementary but comprehensive introduction to econometrics. Illustration of economics and application of these concepts to economic problems will be emphasized. The course covers Gauss-Markov assumptions and violation of the assumptions such as heteroscedasticity and serial correlation.			
<b>Course Description in Turkish</b>	Bu ders, ekonometriye temel düzeyde ama kapsamlı bir giriş yapmayı amaçlamaktadır. İktisadın görselleştirilmesi ve bu kavramların ekonomik problemlere uygulanması üzerinde durulacaktır. Ders, Gauss-Markov varsayımlarını ve değişken varyans ve otokorelasyon gibi bu varsayımların ihlallerini kapsamaktadır.			
<b>Course Learning Outcomes and Competences</b>	<b>Upon successful completion of the course, the learner is expected to be able to:</b> 1. analyze economic data using standard linear econometrics methods; 2. make inference from econometric models and evaluate related results; 3. apply econometric software to solve econometric models and problems; 4. understand violations of Gauss-Markov assumptions.			

<b>Relation to Program Outcomes and Competences: N=None S=Supportive H=Highly Related</b>		
<b>Program Outcomes and Competences</b>	<b>Level</b>	<b>Assessed by</b>

	N/S/H	Exam, Project, HW, Lab, Presentation, etc.
1. Has a broad understanding of economics with a deep exposure to other social sciences and mathematics.	H	Project
2. Demonstrates knowledge and skills in understanding the interactions of different areas of economics.	H	Exam
3. Displays a sound comprehension of microeconomic and macroeconomic theory.	S	Project
4. Applies economic concepts to solve complex problems and enhance decision-making capability.	H	Exam
5. Uses quantitative techniques to analyze different economic systems.	H	Exam
6. Applies theoretical knowledge to analyze issues regarding Turkish and global economies.	H	Project
7. Demonstrates proficiency in statistical tools and mainstream software programs to process and evaluate economic data.	H	Homework
8. Behaves according to scientific and ethical values at all stages of economic analysis: data collection, interpretation and dissemination of findings.	S	Project
9. Uses written and spoken English effectively (at least CEFR B2 level) to exchange scientific information.	S	Project
10. Exhibits individual and professional ethical behavior and social responsibility.	S	Quiz
11. Displays learning skills necessary for further study with a high degree of autonomy	S	Project
Prepared by and Date	Erdem Kilic, April 2018	
<b>Semester</b>	<b>Fall 2018-2019</b>	
Name of Instructor	Associate Professor Dr. Erdem Kilic	
Course Contents	Week	Topic
	1.	Introduction to econometrics and economic data
	2.	Simple linear regression model
	3.	Multiple linear regression model: Estimation
	4.	Multiple linear regression model: Inference
	5.	Multiple linear regression model: OLS Asymptotics
	6.	Multiple linear regression model: Model Selection
	7.	Multiple linear regression model: Binary Variables
	8.	Heteroscedasticity
	9.	Endogeneity and Misspecifications I
	10.	Endogeneity and Misspecifications II
	11.	Times Series Data Analysis I
	12.	Times Series Data Analysis II
	13.	Project Evaluation
	14.	Review
	15.	Final Examination Period
	16.	Final Examination Period
Required/Recommended Readings	Introductory Econometrics, by J. M. Wooldridge, 6 <sup>th</sup> edition, Cengage Learning. Using R for Introductory Econometrics, Florian Heiss, www.URfIE.net. Basic Econometrics, by D. Gujarati, McGraw-Hill, 5th edition. Undergraduate Econometrics by R.C. Hill, W.E. Griffiths, and G.G. Judge, Wiley, 4th edition. Applied Econometrics with R, by Kleiber and Zeileis, Springer-Verlag, 2008.	
Teaching Methods	Flipped classroom	
Homework and Projects	Term Project and Quizzes	
Laboratory Work	Laboratory (R)	

Computer Use	Laboratory (R)
Other Activities	None
Assessment Methods	The course will be graded according to the following requirements. 3 Quizzes: 6% Homework: 14% Assignment: 15% Midterm: 30% Final: 35%
Course Administration	Erdem Kilic – <a href="mailto:kilice@mef.edu.tr">kilice@mef.edu.tr</a> More detailed information about the course, like office hours, can be found in the blackboard. Attendance is required. Academic Dishonesty and Plagiarism: <a href="#">YOK Regulation</a>

ECTS Student Workload Estimation	Activity	No/Weeks	Hours			Calculation	Explanation
		No/Weeks per Semester (A)	Preparing for the Activity (B)	Spent in the Activity Itself (C)	Completing the Activity Requirements (D)		
	Lecture	14	2	2	1	70	A*(B+C+D)
	Lab etc.	14		1		14	
	Midterm(s)	1	8	2		10	A*(B+C+D)
	Project, Homework, Quiz	5	4			20	A*(B+C+D)
	Final Examination	1	16	2		18	A*(B+C+D)
	Total Workload					132	
	Total Workload/25					5.28	
	ECTS					<b>5</b>	