

**ECTS COURSE INFORMATION FORM**

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

Course Code	ECON 302			
Course Title in English	Econometrics II			
Course Title in Turkish	Ekonometri II			
Language of Instruction	English			
Type of Course	Lecture (Flipped Classroom)			
Level of Course	Undergraduate Advanced			
Semester	Fall			
Contact Hours per Week	Lecture: 3	Recitation: 0	Lab: 0	Other: 0
Estimated Student Workload	136 hours per semester.			
Number of Credits	5 ECTS			
Grading Mode	Standard Letter Grade			
Pre-requisites	ECON 301			
Expected Prior Knowledge	Prior knowledge of econometrics.			
Co-requisites	None			
Registration Restrictions	Only Undergraduate Students			
Overall Educational Objective	To improve one's empirical analysis capabilities through econometric tools and techniques.			
Course Description	This course will introduce the models and techniques that accommodate special characteristics of economic data. Problems such as multicollinearity, heteroscedasticity and autocorrelation will be considered. Furthermore, identification and estimation of simultaneous models, models with discrete variables, and an introduction to time series analysis will be discussed.			
Course Description in Turkish	Bu ders, ekonomik verilerin özelliklerini barındıran modelleri ve teknikleri tanıttacaktır. Çoklu doğrusallık, değişken varyans ve otokorelasyon gibi sorunlar dikkate alınacaktır. Ayrıca, eşanlı modellerin tanımlanması ve tahmini, ayrık değişkenli modeller ve zaman serileri analizine giriş konuları ele alınacaktır.			
Course Learning Outcomes and Competences	Upon successful completion of the course, the learner is expected to be able to: 1. analyze econometric methods using Panel Data, Time Series Data, and Cross-sectional Data; 2. make inference from econometric models and evaluate related results; 3. apply econometric software to solve econometric models and problems; 4. show understanding on econometric problems such as multicollinearity; heteroscedasticity and autocorrelation.			

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

	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	Exam, Quiz, Homework, Project
2. Demonstrates knowledge and skills in understanding the interactions of different areas of economics.	H	Exam, Quiz, Homework, Project
3. Displays a sound comprehension of microeconomic and macroeconomic theory.	S	Homework, Project
4. Applies economic concepts to solve complex problems and enhance decision-making capability.	H	Exam, Quiz, Homework, Project
5. Uses quantitative techniques to analyze different economic systems.	H	Exam, Quiz, Homework, Project
6. Applies theoretical knowledge to analyze issues regarding Turkish and global economies.	H	Exam, Quiz, Homework, Project
7. Demonstrates proficiency in statistical tools and mainstream software programs to process and evaluate economic data.	H	Homework, Project
8. Behaves according to scientific and ethical values at all stages of economic analysis: data collection, interpretation and dissemination of findings.	S	Homework, Project
9. Uses written and spoken English effectively (at least CEFR B2 level) to exchange scientific information.	H	Exam, Quiz, Homework, Project
10. Exhibits individual and professional ethical behavior and social responsibility.	S	Homework, Project
11. Displays learning skills necessary for further study with a high degree of autonomy	S	Homework, Project

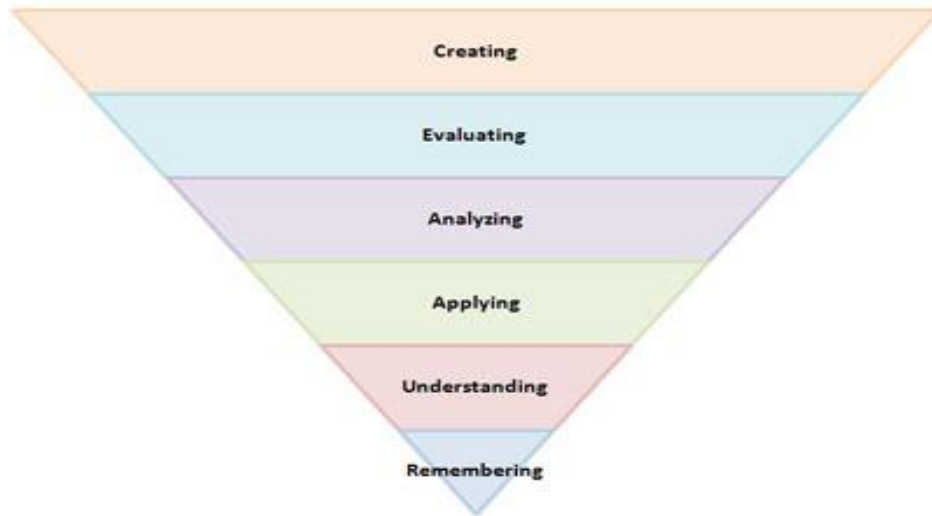
Prepared by and Date	Erdem Kilic, 05.01.2018	
Semester	Spring 2018-2019	
Name of Instructor	Associate Professor Dr. Erdem Kilic	
Course Contents	Week	Topic
	1.	Time series data analysis I (Serial Correlation)
	2.	Time series data analysis II (Serial Correlation Tests)
	3.	Panel Data Analysis I
	4.	Panel Data Analysis II
	5.	Simultaneous Equations Models I
	6.	Simultaneous Equations Models II
	7.	Software Applications for Presented Econometric Methods
	8.	Project Preparation (Data Analysis and Scripting)
	9.	Limited Dependent Variable Models I
	10.	Limited Dependent Variable Models II
	11.	Advanced Times Series Data Analysis I
	12.	Advanced 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 th edition, Cengage Learning. Using R for Introductory Econometrics, Florian Heiss, www.URfile.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. 4 Quizzes: 10% Homework: 5% Assignment: 10% Midterm: 35% Final: 40%
Course Administration	Erdem Kilic – kilice@mef.edu.tr More detailed information about the course, like office hours, can be found in the blackboard. Attendance is required. Academic Dishonesty and Plagiarism: YOK Regulation

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)	Activity Requirements (D)		
	Lecture	14	1	3		56	A*(B+C+D)
	Lab etc.					0	
	Midterm(s)	1	8	2		10	A*(B+C+D)
	Project, Homework, Quiz	6	8	1		54	A*(B+C+D)
	Final Examination	1	14	2		16	A*(B+C+D)
	Total Workload					136	
	Total Workload/25					5.44	
	ECTS					5	

Key verbs for cognitive domain in writing learning outcomes and competences:

Bloom's Taxonomy



Revised edition by Lorin Anderson (a student of Bloom)

Key Verbs:

Remembering: defines, describes, identifies, knows, labels, lists, matches, names, outlines, recalls, recognizes, reproduces, selects, states.

Understanding: comprehends, converts, defends, distinguishes, estimates, explains, extends, generalizes, gives an example, infers, interprets, paraphrases, predicts, rewrites, summarizes, translates.

Applying: applies, changes, computes, constructs, demonstrates, discovers, manipulates, modifies, operates, predicts, prepares, produces, relates, shows, solves, uses.

Analyzing: analyzes, breaks down, compares, contrasts, diagrams, deconstructs, differentiates, discriminates, distinguishes, identifies, illustrates, infers, outlines, relates, selects, separates.

Evaluating: appraises, compares, concludes, contrasts, criticizes, critiques, defends, describes, discriminates, evaluates, explains, interprets, justifies, relates, summarizes, supports.

Creating: categorizes, combines, compiles, composes, creates, devises, designs, explains, generates, modifies, organizes, plans, rearranges, reconstructs, relates, reorganizes, revises, rewrites, summarizes, tells, writes.

Key verbs for affective domain in writing learning outcomes and competences:

Receiving Phenomena: asks, chooses, describes, follows, gives, holds, identifies, locates, names, points to, selects, sits, erects, replies, uses.

Responding to Phenomena: answers, assists, aids, complies, conforms, discusses, greets, helps, labels, performs, practices, presents, reads, recites, reports, selects, tells, writes.

Valuing: completes, demonstrates, differentiates, explains, follows, forms, initiates, invites, joins, justifies, proposes, reads, reports, selects, shares, studies, works.

Organizing: adheres, alters, arranges, combines, compares, completes, defends, explains, formulates, generalizes, identifies, integrates, modifies, orders, organizes, prepares, relates, synthesizes.

Internalizing values: acts, discriminates, displays, influences, listens, modifies, performs, practices, proposes, qualifies, questions, revises, serves, solves, verifies.