

Department of Financial and Banking

College of Administration and Economic

University of Salahaddin-Erbil University

Subject: Econometrics

Course Book : (Year Three)

Lecturer's name: MSc. Saad T. Muhammed

Academic Year: 2023/2024

Course Book

1. Course name	Econometrics
2. Lecturer in charge	Saad Taha Muhammed
3. Department/ College	Financial and Banking/ Administration and Economic
4. Contact	e-mail: saad.muhammed@su.edu.krd
	Tel: +964(0)750 454 9598
5. Time (in hours) per week	Theory: 2 hours
6. Office hours	Tuesday: 8:30 - 2:30 Three Class
7. Course code	
8. Teacher's academic profile	15/11/2015 Instructor in college of Economics and
	Administration - Salahaddin University / Erbil
	17/11/2007 Assist Instructor in college of Economics and
	Administration - Salahaddin University / Erbil
	Administration - Sarahaddin Oniversity / Eron
	09/2004 To 9/2007 University of Salahaddin-Erbil - M.Sc
	degree in Economics
	9/1995 To 9/1999 College of Administration and
	Economics-University of Salahaddin-Erbil - BSc degree in
	Economic
	10/2007 To 10/2014 Director of Computer Unit in College
	of Administration and Economic Supervising 14 employers
	in Computer Unit, Computer teacher, Arrangement all
	computer lessons, supervising all computers and network in
	college.
	For more details, please visit the website:
	https://academics.su.edu.krd/saad.muhammed
9. Keywords	Econometrics Model, Economic theory, Statistical theory,
	Data and Information, Dispersion measurements.

10. Course overview:

Econometrics is a very significant branch of Economics. Scientists specializing in the Econometrics area deal with important economic issues such as statistics of the "glass ceiling" in government and private organizations and financial forecasts.

For students studying Economics in a university, Econometrics provides a strong analytical background and prepares those for more advanced research activities, for future finance specialists a module in Econometrics provides specific and common skills useful in the finance area.

11. Course objective:

Econometrics is interesting because it provides the tools to enable us to extract useful information about important economic policy issues from the available data. Students who gain expertise in econometrics will also find that they enhance their job prospects.

Econometrics is the use of statistical techniques to understand economic issues and test theories. Without evidence, economic theories are abstract and might have no bearing on reality. Econometrics is a set of tools we can use to confront theory with real-world data.

12. Student's obligation

Students have the obligation to participate in course examinations and other assessed performances. Examination frauds and copying of assignments or material are not allowed. Students are anticipated to attend classes and to submit assignments on the due date, for late submissions they will be penalized. Students are also expected to participate in tutorials.

That the students are ready to conduct surprise examinations (Quizzes) that may be conducted by teaching to make sure that over the course of the follow-up article to the students in the time of need. Students should do to prepare summary reports whenever the need arises and can teaching that the dividing students into groups in each group to prepare various reports of the type, according to the vocabulary material and topics that will be covered during the anchored year or regard to article of sub-themes.

13. Forms of teaching

Several forms of teaching will be used to reach the objectives of the course: powerPoint presentation for the head titles and summary of conclusion with applications Program Eviews that could be used in different areas.

Furthermore, students will content homework. There will be classroom discussions and the lecture will give enough background to, solve, analyses, and evaluate problems sets.

14. Assessment scheme

The students are required to do two closed book exams during the academic year besides the assignments;

Mid- term Theory Exam: 20%Practice Exam: 10%

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Student Activity (participating) 5%

Final Theory Exam: 45%Final Practice Exam: 15%

15. Student learning outcome:

Studying econometrics is important. It is required in various aspects of life and it is a very important skill set to have for anyone. Learning econometrics definitely gives a student an edge over other students who haven't studied econometrics. Firms want to hire professionals who are not only logically sound but who can also leverage the available data to test various theories and justify all their theories with data analysis.

16. Course Reading List and References:

1- Gujarati, D.N. (2010) Basic Econometrics. 16th Edition, McGraw-Hill Companies.

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- 2- Riccardo (Jack) Lucretia (2021) Basic Econometrics. 10th Edition.
- 3- Christiaan Heij and Others, Oxford University Press is a department of the University of Oxford, First published 2004, Econometric Methods with Applications in Business and Economics
- 4- Magazines and review (internet)

17. The Topics:

17. The		e: The Fundamentals	
	Lesson 1	Introduction to Econometrics	
	Locoon	introduction to Economicatios	
Mark 4		Aims of Econometrics	
Week 1	Lesson 2	1. Formulation and apositionting of accommodate models.	
	Lesson 2	Formulation and specification of econometric models: Setimation and testing of models:	
		2. Estimation and testing of models:	
		3. Use of models:	
		Introduction to Data and Information	
Week 2	Lesson 3	1. Time series data	
Week 2	Lesson 3	2. Cross-section data	
		3. Panel data:	
		4. Dummy variable data	
		Econometrics theory	
Week 3	Lesson 4		
week 3	Lesson 4	1. Economic theory.	
		2. Mathematical theory.	
		3. Statistical theory.	
		Some basic measurements	
Week 4	Lesson 5	1. Central tendency	
WOOK 4	20000110	2. Dispersion measurements	
		3. Correlation	
	Chapter Tv	vo: Concepts of Linear Regression Analysis	
		Econometrics and regression analysis.	
Week 5	Lesson 6	<u>=====================================</u>	
	Lesson	Linear regression model	
		Steps in Regression analysis	
		1. Statement of the problem under consideration:	
		2. Choice of relevant variables:	
Week 6	Lesson 7	3. Collection of data on relevant variables:	
Week o		4. Specification of model:	
		5. Choice of method for fitting the data:	
		6. Fitting of model:	
		7. Model criticism and selection	
		8. Objectives of regression analysis	
	Chapter The	ree: Simple Linear Regression Analysis	
	Chapter Three. Onlipie Linear Regression Analysis		

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Week 7	Lesson 8	The simple linear regression model Least squares estimation	
Week 8		Properties of the regression estimators:	
	Lesson 9	Unbiased property:	
		Variances:	
		Covariance:	
		Residual sum of squares:	
Week 9	Lesson 10	Centred Model:	
	2000011 10	No intercept term model:	
		Testing of hypotheses and confidence interval estimation for slope	
Week 10		parameter:	
	Lesson 11	Testing of hypotheses and confidence interval estimation for intercept	
		term:	
Week 11	Lesson 11	Analysis of variance:	
		ANOVA Table	
Week 12	Lesson 12	Goodness of fit of regression	
		Prediction of values of study variable	
	Chapter Four : Introduction to Eviews Software		
Week 13	Lesson 13	Introduction to Eviews Software	
	Lesson 14	Variable Definitions & Data read in Eviews	
Week 14	Lesson 15	Descriptive Statistics in Eviews	
	Lesson 16	Simple Linear Regression Practice on Eviews Software	