**Antalya Bilim University Department of Economics ECON 1302: Econometrics II** 

**Spring 2024-2025** 

Class Time: Tuesdays 09:00-12:00 – B1/04

You can contact me via e-mail

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(A2-42)

This course builds on third-year Econometrics I course and focusses on how to do econometric analysis using R, a free and very powerful statistical computing software. The course covers linear regression

models, hypothesis testings, non-linear models as well as time series regression models.

**Note:** Please bear in mind that this syllabus may be subject to change.

**Textbooks:** 

C. Colonescu (2016). Principles of Econometrics with R. Can be downloaded from

https://bookdown.org/ccolonescu/RPoE4/.

Introduction to Econometrics with R. <a href="https://scpoecon.github.io/ScPoEconometrics/">https://scpoecon.github.io/ScPoEconometrics/</a>

Heiss, Florian (2016) Using R for Introductory Econometrics.

**Learning Outcomes** 

The aim of this course is to provide students with hands-on experience in applying contemporary

econometric methods. After completing this course, you will be able to:

develop an understanding of how one chooses an econometric model to analyse the data at

hand;

use the chosen model to analyse the data using statistical software;

interpret the results obtained:

able to critically assess empirical work produced and published by researchers.

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Form No: ÜY-FR-0627 Yayın Tarihi:03.05.2018 Değ.No:0 Değ. Tarihi:-

**Academic Honesty and Plagiarism** 

Plagiarism is using the words or ideas of others and presenting them as your own. Plagiarism is a type

of intellectual theft. It can take many forms, from deliberate cheating to accidentally copying from a

source without acknowledgement. Although plagiarism is well established in Turkish educational

system, you will be punished heavily if you are caught do it.

**Assessment Criteria:** 

1) Midterm Exam: 40%

2) Final Exam: 60%

**Course Schedule** 

**WEEK 1 Introduction to R** 

**WEEK 2 The Simple Linear Regression Model** 

**WEEK 3 Interval Estimation and Hypothesis Testing** 

**WEEK 4 Prediction** 

**WEEK 5 The Multiple Regression Model** 

**WEEK 6 Further Inference in Regression Model** 

**WEEK 7 Using Indicator Variables** 

**WEEK 8 Midterm** 

**WEEK 9 Heteroskedasticity** 

**WEEK 10 Time Series** 

**WEEK 11 Simultaneous Equations** 

**WEEK 12 Non – Stationary Time Series** 

**WEEK 13 VEC - VAR Models** 

**WEEK 14 ARDL Models** 

**WEEK 15 Review** 

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