Antalya Bilim University Department of Economics, Econ 1403 Time Series Analysis and Forecasting

Fall 2021

Class Time & Place: TBA

Naciye Kınık Keresteci naciye.kinik@antalya.edu.tr

(A2-31)

Welcome to the course. Time Series Analysis and Forecasting will be the next step for your

data analysis journey. Students will examine a different dimension of the data during the course, which

is the time dimension. Instead of looking for the relationship between different variables, we will check

is there is a certain pattern making future predictions easier for us for a variable. Later we will extend

this idea to more variables case. EViews is the software tool assisting to Time Series Analysis and

Forecasting.

Course book:

Elements of Forecasting, 4/E by Francis X. Diebold. Students are responsible to get a hard copy of the

course book.

Academic Honesty and Plagiarism

Plagiarism and cheating is strictly forbidden. Each task you submit must be totally yours. Otherwise,

University rules and regulations will be applied.

Attendance

Attendance is highly encouraged in Econ 1403. Actual physical presence (with any resulting verbal

interaction between instructor and student) can be as necessary to understanding the course's subject

matter as completing homework assignments and exams. Do not forget that this course requires your

effort on regular basis. Otherwise it will be very difficult to catch up if not impossible. Do not miss any

classes unless you have a very serious, legitimate reason! If you do miss any classes get lecture notes

from a friend as there might be changes in lecture plans and explorations. In addition, please contact

me for any possible blind spot. If you miss any exam, be aware that you need to submit legitimate

excuse not to get zero from the exam.

Promptness

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Make sure that you come to class fairly enough before the instructor comes. Entering the classroom

after the instructor's presentation has started can be distracting both to the instructor as well as to

other students.

Other Class Disruptions

Unless there is an emergency stay seated during the lecture. Avoid distracting movements, talking to

each other, eating, drinking and electronics. You need to pay attention to the lecture.

Assessment Criteria:

1) **Presentation (20%):** Students are required to prepare presentations and present them in class.

They may download data from TUIK, OECD, world bank or another resource depending on

their interests.

2) Midterm (30%): Students are responsible for all class material covered until the midterm

exam.

3) Final exam (50%): This exam is cumulative covering all units and topics studied throughout

the course, but emphasis will be on the topics covered after the midterm.

Please note that you are required to receive a grade of 50 out of 100 to be able to pass the course!

Course Schedule

WEEK 1 Introduction to the Course

WEEK 2 Smoothing methods

WEEK 3 Smoothing methods

WEEK 4 Deterministic trends and seasonality

WEEK 5 Deterministic trends and seasonality

WEEK 6 Structural models

WEEK 7 Structural models

WEEK 8 Midterm Exam

WEEK 9 Non-structural models

WEEK 10 Combining forecasts

WEEK 11 Combining forecasts

WEEK 12 Miscellaneous methods and forecasting in practice

WEEK 13 Miscellaneous methods and forecasting in practice

WEEK 14 Review

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