MARMARA UNIVERSITY
ISLAMIC ECONOMICS AND FINANCE INSTITUTE
M. A. PROGRAMME

IEF 7007.1 ECONOMETRICS   PROF. SADULLAH ÇELİK   SPRING 2020

COURSE OBJECTIVE

Economics suggests important relationships, often with policy implications, but virtually never suggests quantitative magnitudes of causal effects. This course is focused on teaching methods for estimating causal effects using observational data, introducing methods for prediction including forecasting using time series data, emphasizing applications with theory used only as needed to understand the whys of the methods, evaluating the regression analysis in empirical economics papers in other courses and helping for some hands-on experience with regression analysis in textbook problem sets.

COURSE PLAN

1st Week: The Statistical Analysis of Economic (and related) Data 1 (Chps. 1-3)
2nd Week: The Statistical Analysis of Economic (and related) Data 2 (Chps. 1-3)
3rd Week: Linear Regression with One Regressor (Chp. 4)
4th Week: Regression with a Regressor: Hypothesis Tests & Confidence Int. (Chp. 5)
5th Week: Linear Regression with Multiple Regressors (Chp. 6)
6th Week: Hypothesis Tests and Confidence Int. in Multiple Regression (Chp. 7)
7th Week: Review
Midterm Week: 4 questions from Chapters 1-7.
9th Week: Nonlinear Regression Functions (Chp. 8)
10th Week: Assessing Studies Based on Multiple Regression (Chp. 9)
11th Week: Regression with Panel Data (Chp. 10)
12th Week: Regression with a Binary Dependent Variable (Chp. 11)
13th Week: Instrumental Variables Regression (Chp. 12)
14th Week: Experiments and Quasi-Experiments (Chp. 13)
15th Week: Introduction to Time Series Regression and Forecasting (Chp. 15)
16th Week: Estimation of Dynamic Causal Effects (Chp. 16)
FINAL: 4 questions from Chapters 1-13, 15-16

TEXTBOOK

Stock, J. H. and M. W. Watson. (2020). Introduction to Econometrics, 4th Edition, Global Edition, Pearson.

GRADING

One midterm	(Date to be announced)	40 %
One final	(Date to be announced)	60 %