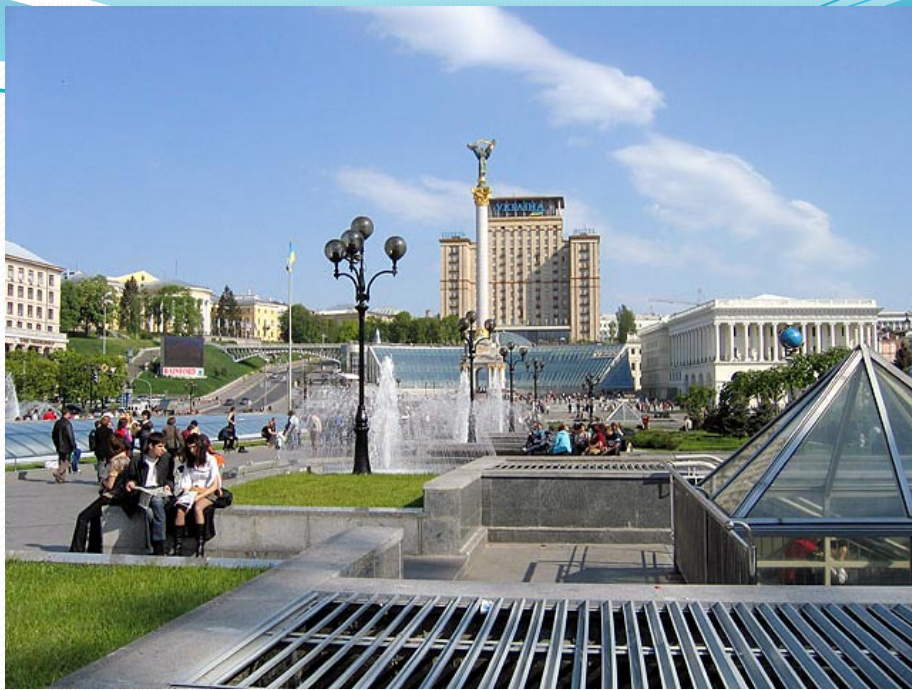# Microeconometrics: course description

Ass. Prof. Andriy Stavytskyy

National Taras Shevchenko University of Kyiv

Microeconometrics =

- Micro data +
- Econometric methods

Description

Principal goals are:

- to form the analytical skills in microeconometrics,
- to acquire necessary programming knowledge and skills in EViews
- to learn how to apply microeconometric modelling technics for the analysis of microeconomic, macroeconomic and managerial data.

The main skills that are trained under this program:

- empirical modelling of economic processes, using micro data,
- application of microeconometric techniques for micro data analysis,
- application of EViews software.

Learning outcomes

- The ability to read advanced level economic and econometric literature that deals with micro data analysis.

- The ability to design and to conduct appropriate econometric analysis of micro data.

- The ability to apply EViews software for any discussed micro data model.

Agenda – 1

1. Introduction to Microeconometrics.
    1. Econometric review,
    2. Testing of hypothesis,
    3. Choosing the best model,
    4. Software application for modelling.
2. Quantile Regression
    1. Motivation of Quantile Regression,
    2. Quantile regression Estimation,
    3. Properties of the Estimator,
3. Binary-Valued Dependent Variables
    1. Probit/Logit Models
    2. Estimating a Probit/Logit Model
    3. Deriving Probit/Logit

Agenda – 2

4. Multinomial models
    1. Multinomial logit
    2. Ordered, sequential, and ranked outcomes
    3. Multivariate discrete outcomes
5. Tobit and selection models
    1. Censored and truncated models
    2. Tobit model
    3. Heckman Selection Model
6. Panel Data Analysis
    1. Panel Data
    2. Panel Data DGP's
    3. Fixed Effects
    4. Random Effects
    5. The Hausman Test

Reading list

- Cameron, A. Colin, Trivedi, Pravin K. (2005) Microeconometrics: Methods and Applications. - Cambridge University Press
- Wooldridge, Jeffrey M. (2010) Econometric Analysis of Cross Section and Panel Data, 2nd ed. - The MIT Press
- Baltagi, Badi H. (2013) Econometric Analysis of Panel Data, 5th ed. - John Wiley & Sons, Inc.
- Biørn, Erik (2016) Econometrics of Panel Data: Methods and Applications. - Oxford University Press
- Hsiao, Cheng (2014) Analysis of Panel Data, 3rd ed. - Cambridge University Press
- Degryse, Hans, Kim, Moshe, Ongena, Steven (2009) Microeconometrics of Banking: Methods, Applications, and Results. - Oxford University Press
- Lee, Myoung-jae (2010) Micro-Econometrics. Methods of Moments and Limited Dependent Variables. - Springer
- Joseph M. Hilbe (2017) Logistic Regression Models. - Chapman and Hall/CRC
- Greene, William H. (2017) Econometric Analysis, 8th ed. - Pearson
- Wiśniewski, Jerzy Witold (2015) Microeconometrics in Business Management. - John Wiley & Sons, Inc.
- Adams, Abi, Clarke, Damian, Quinn, Simon (2016) Microeconometrics and MATLAB: An Introduction. - Oxford University Press

Teaching Methods

Activity	Number	Hours
Lectures (2 hours each)	6	12
Seminars (2 hours each)	6	12
Individual project	1	Self-fulfilling at home
Exam (theoretical part)	1	1
Exam (practical part)	1	1

Assessment Methods

Description	Per cent of assessment
Seminar's activity, including fulfilling special home-tasks	10%
Individual project	30%
Written exam (theoretical part)	30%
Written exam (practical part)	30%

Contacts

- Web: www.andriystav.cc.ua
- Email: a.stavytskyy@gmail.com

Questions?