

ECONOMETRICS II

COMPULSORY BLOCK 1 (2nd Nov-Dec 4th 2015)

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SYLLABUS:

Topic 1. Overview

Endogeneity & Simultaneity

Identification

Instrumental Variables

Returns to Education

2SLS, GMM

[LATE, Regression Discontinuity] (*)

Topic 2. Quantile Regressions

Check function

Properties of Quantile Regression Estimators

Example: Return to Education

[Quantile Treatment Effects] (*)

Topic 3. Estimation in non-linear regression models

Maximum Likelihood Methods

Properties of ML estimators

Topic 4. Discrete Choice Models

Probit & Logit

Multinomial Logit

Models without IIA

Nested Logit Models

Multinomial Probit

Random Effects Models

Topic 5. Censored Regression Models

Tobit Model

Sample Selection

Probit Selection Equation

Topic 6. Maximum Likelihood Methods

LM, LR and Wald tests

Topic 6. Panel data

Static Panel Data Models

Dynamic Panel-Data Models.

(*) Time permitting: material covered at length in A. Ichino's *Causality* course

BASIC REFERENCES:

Textbook

- Angrist, J. & J-S Pischke (2008) *Mostly Harmless Econometrics*. Princeton Univ. Press
- Angrist, J. & J-S Pischke (2015) *Mastering' Metrics*. Princeton Univ. Press
- Wooldridge, J (2010) *Econometric Analysis of Cross Section and Panel Data*. MIT Press

EVALUATION:

HOMEWORK (20%), FINAL EXAM (80%)