Industrial Organization

Instructor: Fang-Chang Kuo

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Email: fckuo@ccu.edu.tw

Office Hours: Wed. 12:00am-2:00pm

Office: College of Management 331

Web: https://ecourse2.ccu.edu.tw/

Class Hours: Thur. 1:10pm-4:00pm

Class Room: College of Management 426

Course Description

This course provides a graduate-level introduction to Industrial Organization (IO), with a focus on empirical methods and applications. Structural models are the key components in modern Industrial Organization. We will start by introducing production function estimation. Demand estimation will be the main part of this course. We will also cover empirical applications in different industries, and see how these empirical techniques apply to analyses of competition policies.

The goal of this course is to provide students with knowledge and toolkit to conduct empirical analyses that involves structural models, to evaluate economic/business policies, and to critically read quantitative research papers.

Course Materials

Slides

- This course does not have a required textbook. Course slides will be provided as main materials.

Papers

- Papers will be assigned from time to time during the classes as required readings.

References

- F. Hayashi. *Econometrics*. Princeton University Press, 2000

- P. Davis and E. Garcés. *Quantitative Techniques for Competition and Antitrust Analysis*. Princeton University Press, 2009

- D. Ackerberg, C. L. Benkard, S. Berry, and A. Pakes. Econometric tools for analyzing market outcomes. *Handbook of econometrics*, 6:4171–4276, 2007

- P. C. Reiss and F. A. Wolak. Structural econometric modeling: Rationales and examples from industrial organization. *Handbook of econometrics*, 6:4277–4415, 2007

Grading Policy

- Midterm **20%**; Final **30%**; Presentations **50%**

Course Structure

Assignments

Assignments are extremely important in this course. Students are encouraged to work together but individual write-up is required. Assignments must be submitted at the beginning of the lecture. Submissions by email will not be accepted. No late assignments will be accepted under any circumstances.

Presentations

In the first half of this course, I will assign papers as required readings for each class. All students are required to read them and prepare for potential presentations. The presenter will be selected randomly for a 10 to 15 minutes talk. For the second half, I will assign different paper for each student depending on their own research interests. The presentation will take over one hour as students need to present details of their assigned paper, and prepare for questions from the audience.

Course Plan

1. Production Function Estimation

2. Demand Estimation