Course description

Empirical Industrial Organization I (FEIO16)

Instructors / lecturers:

Professor Otto Toivanen
Aalto University and University of Leuven

Professor Ari Hyytinen
University of Jyväskylä

Professor Mika Maliranta
University of Jyväskylä and ETLA

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Course description

The goal of this intensive course is to provide students with a basic understanding of how to do empirical research in industrial economics, with an emphasis on issues related to R&D, innovation, entry and productivity. The material covers and advances students' understanding of the methods used in these domains of empirical IO research.

We emphasize empirical work and insights, although theoretical work will also be discussed. The goal is to motivate how empirical patterns can be uncovered, theories can be tested; and how theoretical models can be used as a basis for empirical modelling.

The course consists of three parts, each covering one topic. The parts are "R&D and innovation" (by Otto Toivanen), "Entry and entrepreneurship" (by Ari Hyytinen) and "Productivity" (by Mika Maliranta). In total, there will be 12 lectures (3x4x2h = 24h).

The syllabus of the course can be found from below. The required readings for each part of the course will be announced later. The timing of the lectures and the lecture rooms can be found from here: http://www.fdpe.fi/images/documents/FEIO16/FEIO16_schedule.pdf

Syllabus

Part 1: R&D and innovation (Otto Toivanen, 4x2h)

- Lecture #1: Structural econometrics
- Lecture #2: Empirical economics of intellectual property rights
- Lecture #3: R&D subsidies: Reduced form
- Lecture #4: R&D subsidies: Structural modeling

Part 2: Entry and entrepreneurship (Ari Hyytinen, 4x2h)

- Lecture #5: Measurement of entry and entry patterns
- Lecture #6: Modelling entry
- Lecture #7: Entrepreneurship
- Lecture #8: Entry and innovation

Part 3: Productivity (Mika Maliranta, 4x2h)

- Lecture #9: Competitiveness and productivity of industries and firms
- Lecture #10: Measurement of productivity
- Lecture #11: Decomposition of micro-level sources of productivity
- Lecture #12: Empirical analyzes of micro-level dynamics of productivity growth