

Empirical IO II : Production Function and Market Structure

Course title – Intitulé du cours	Empirical IO II: Production Function Estimation and Market Structure
Level / Semester – Niveau /semestre	Spring 2022
School – Composante	Ecole d'Economie de Toulouse
Teacher – Enseignant responsable	Mathias Reynaert
Other teacher(s) – Autre(s) enseignant(s)	
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Other teacher(s) – Autre(s) enseignant(s)	
Lecture Hours – Volume Horaire CM	15
TA Hours – Volume horaire TD	
TP Hours – Volume horaire TP	
Course Language – Langue du cours	English
TA and/or TP Language – Langue des TD et/ou TP	English

Teaching staff contacts:

- mathias.reynaert@tse-fr.eu
- T690
- Office hours by appointment

Course Objectives: newly acquired knowledge once the course completed should be well identified

In more detail :

- ideas, theories or methods that will be illustrated in class;
- methods that will be used and that students are expected to be proficient in;
- skills that will be developed during the course (type of problems to be resolved, ability to provide written and oral comments on an empirical analysis,...).

It is preferable to specifically list simple objectives with verbs, so that it is easy to evaluate whether these objectives are achieved at the end of the course or to identify the areas for improvement (for instance : for implementation goals - test hypotheses and draw correct inferences using test statistic; for conceptual goals - characterize first-degree, second-degree and third-degree price discrimination;...).

This is a course in the Graduate Industrial Organization sequence. We aim to give a solid grounding in understanding the structure of markets, and the strategic behavior of firms and their consumers. This course focuses on empirical methods and research topics in industrial organization at the frontier of the empirical IO research.

This sequence will consist of two parts. In the first part we will cover production function estimation, productivity, and market power. In the second part we will discuss models of market structure and entry.

By the end of the course students should acquire the ability to program and code the current frontier of the research, to critically assess current methodology and to formulate novel ideas for further research.

Prerequisites :

Econometrics at the M2 ETE level

Practical information about the sessions:

Sessions will consist of detailed discussion of methods and their implementation.

Grading system :

One problem set, one in-class presentation, and in-class participation.

Bibliography/references :

Detailed reading list provided in class.

Session planning :

Week 1-3: production function estimation, productivity, and market power.

Week 4-5: models of market structure and entry.

Distance learning :

Distance learning will be provided if necessary, by implementing some of the following:

- Interactive virtual classrooms
- Recorded lectures (videos) followed by Q&A sessions
- Online classes
- Frequent chatrooms