



Denominazione	Tools in Applied Economics
Docente (se già definito)	Riccardo Camboni, Leonardo Madio
Ore	30
CFU	max 3750 caratteri
Periodo di svolgimento	Aprile - Maggio
Modalità di erogazione	<input checked="" type="checkbox"/> In presenza <input type="checkbox"/> A distanza <input type="checkbox"/> Duale
Lingua di erogazione	Inglese
Obbligo presenza	<input type="checkbox"/> Sì (% minima di presenza) <input type="checkbox"/> No
Contenuti del corso	<p>max 3750 caratteri</p> <p>The course examines the behavior of firms and markets, with special attention to strategic interactions, market structure, and competition policy. We will cover classical models of firm behavior, market power, and industry dynamics, while also incorporating the latest theoretical and empirical developments in the literature.</p> <p>Particular attention will be devoted to modern applications, particularly in digital markets and auction design.</p>
Obiettivi di apprendimento	<p>max 3750 caratteri</p> <p>Gain a deep understanding of the core models of industrial organization. This includes the ability to critically analyze both classical and modern theoretical frameworks used to study strategic interactions and market outcomes in traditional and digital markets (e.g., two-sided markets). Learn how to model firms' decision-making processes to address policy-oriented questions. Develop proficiency in applying both structural and reduced-form econometrics (e.g., difference-in-differences) in the context of industrial organization, with particular emphasis on digital markets (e.g., price transparency, search costs) and auction design.</p> <p>Moreover, students will learn how to carry out simple research projects using real auction data. They will develop a foundational understanding of auction theory and learn to adapt standard non-parametric empirical models to address specific research questions and data sets.</p> <p>Throughout the course, students will be exposed to a range of academic papers employing diverse data sources and methodologies, fostering the ability to critically analyze and apply different empirical approaches in their own research.</p>
	Lezioni frontali Presentazioni



Corso su
competenze
trasversali,
interdisciplinari,
transdisciplinari

Sì
 No

Possibile
partecipazione di
dottorandi di altri
corsi

Sì
 No

Prerequisiti
(non obbligatorio)

Microeconomics II

Modalità d'esame
(se previsto)

Referee report and presentation of one or multiple papers on a given topic.

Materiale studio

max 3750 caratteri

Slides and papers

- Tirole, J. (1988). *The theory of industrial organization*. MIT press.
- Belleflamme, P., & Peitz, M. (2015). *Industrial organization: markets and strategies*. Cambridge University Press.
- Belleflamme, P., & Peitz, M. (2021). *The economics of platforms*. Cambridge University Press.
- For an introduction to Auction Theory: Krishna, V., "Auction Theory". Elsevier, doi.org/10.1016/C2009-0-22474-3, 2010. See in particular Chapters 1, 2 and 3.
- A primer on structural empirical models for auction estimates is Athey, S., Haile, P., "Chapter 60 Nonparametric Approaches to Auctions". in Handbook of Econometrics: doi.org/10.1016/S1573-4412(07)06060-6, 2007. See in particular section 3. Two alternative references are:
 - Chapter 6 in: Hortacsu, A., and Joo, J. (2023) "Structural Econometric Modelling in Industrial Organization and Quantitative Marketing", Princeton.
 - Paarsch, H., and Hong, H. (2006) "An Introduction to the structural econometric of Auction Data" MIT Press.
- A recent survey on applied papers is: Hortacsu, H., and Perrigne, I. "Chapter 11 (2021) "Empirical Perspectives on Auctions" in Handbook of Industrial Organization, Volume 5, doi.org/10.1016/bs.hesind.2021.11.011

Informazioni
aggiuntive

max 3750 caratteri

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Course unit English denomination	max 3750 caratteri Topics in Applied Economics
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Teacher in charge (if defined)	max 3750 caratteri Riccardo Camboni, Leonardo Madio
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Teaching Hours	max 3750 caratteri 30
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Number of ECTS credits allocated	max 3750 caratteri
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Course period	max 3750 caratteri April- May
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Course delivery method	<input checked="" type="checkbox"/> In presence <input type="checkbox"/> Remotely <input type="checkbox"/> Blended
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Language of instruction	max 3750 caratteri English
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Mandatory attendance	<input type="checkbox"/> Yes (% minimum of presence) <input type="checkbox"/> No
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Course unit contents	max 3750 caratteri
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Learning goals	max 3750 caratteri Gain a deep understanding of the core models of industrial organization. This includes the ability to critically analyze both classical and modern theoretical frameworks used to study strategic interactions and market outcomes in traditional and digital markets (e.g., two-sided markets). Learn how to model firms' decision-making processes to address policy-oriented questions. Develop proficiency in applying both structural and reduced-form econometrics (e.g., difference-in-differences) in the context of industrial organization, with particular emphasis on digital markets (e.g., price transparency, search costs) and auction design. Moreover, students will learn how to carry out simple research projects using real auction data. They will develop a foundational understanding of auction theory and learn to adapt standard non-parametric empirical models to address specific research questions and data sets. Throughout the course, students will be exposed to a range of academic papers employing diverse data sources and methodologies, fostering the ability to critically analyze and apply different empirical approaches in their own research.
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Teaching methods	max 3750 caratteri Lecturers Presentations
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Course on transversal, interdisciplinary, transdisciplinary skills	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Available for PhD
students from other
courses

- Yes
 No

Prerequisites
(not mandatory)

max 3750 caratteri

Examination methods
(in applicable)

max 3750 caratteri
Referee report and presentation of one or multiple papers on a given topic.

Suggested readings

- max 375 Tirole, J. (1988). *The theory of industrial organization*. MIT press.
- Belleflamme, P., & Peitz, M. (2015). *Industrial organization: markets and strategies*. Cambridge University Press.
- Belleflamme, P., & Peitz, M. (2021). *The economics of platforms*. Cambridge University Press.
- For an introduction to Auction Theory: Krishna, V., "*Auction Theory*". Elsevier, doi.org/10.1016/C2009-0-22474-3, 2010. See in particular Chapters 1, 2 and 3.
- A primer on structural empirical models for auction estimates is Athey, S., Haile, P., "*Chapter 60 Nonparametric Approaches to Auctions*". in Handbook of Econometrics: doi.org/10.1016/S1573-4412(07)06060-6, 2007. See in particular section 3. Two alternative references are:
 - Chapter 6 in: Hortacsu, A., and Joo, J. (2023) "*Structural Econometric Modelling in Industrial Organization and Quantitative Marketing*", Princeton.
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Additional information

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