

## Topics in microeconomics (B)

Academic Year: ( 2024 / 2025 )

Review date: 24-08-2024

Department assigned to the subject: Economics Department

Coordinating teacher: SCHNEIDER , JOHANNES SIEGFRIED

Type: Electives ECTS Credits : 4.0

Year : 2 Semester : 2

## REQUIREMENTS (SUBJECTS THAT ARE ASSUMED TO BE KNOWN)

Microeconomics I, II, and III  
 Macroeconomics I, II, and III  
 Econometrics I, II, and III  
 from the MAEs core sequence

## OBJECTIVES

This course is designed to bring students to the research frontier in contract theory. Students that plan to do research in all areas that involve an understanding of contracts and negotiations are provided with tools and concepts to model and analyze existing contracts, the design of contracts and their dynamic consequences. Beyond studying tools, we put contract theory to work: we look at applications on the research frontier and the lessons contract theory teaches us about them.

After successful completion, students should have the tools and background to do research on contract theory and/or apply state of the art concepts to their applications of interest.

## DESCRIPTION OF CONTENTS: PROGRAMME

Part A: Techniques.

1. Introduction to Dynamic Optimization, Optimal Control, Dynamic Games
2. A refresher on Moral Hazard
3. Experimentation Models

Part B: Applications

1. Innovation
2. Collaboration
3. Industrial Organization
4. Organizational Economics
5. Political Economy
6. Behavioural Economics
7. Theoretical Advances

## LEARNING ACTIVITIES AND METHODOLOGY

Lectures  
 Student Presentations  
 Written Reports and Research Proposals  
 Class Discussion  
 Teamwork  
 Office hours

The focus of the lectures is the introduction of lectures is to introduce and repeat techniques and concepts. Students are then preparing individually or in teams presentations of recent applications of those tools on the basis of current working papers or recent publications. We discuss the papers, their modeling choices and alternatives in class. Students are then asked to use the insights gained to either

provide a report on an existing paper or present a related research idea of their own.

## ASSESSMENT SYSTEM

<b>% end-of-term-examination:</b>	40
<b>% of continuous assessment (assignments, laboratory, practicals...):</b>	60
Class Participation (20%)	
Student presentation (40%)	
written Report/Research Proposal (40%)	

## BASIC BIBLIOGRAPHY

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- Acemoglu, Daron and Matt Jackson History, expectations, and leadership in the evolution of social norms, Review of Economic Studies, 2015
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- Bard Harstad and Marco Battaglini The Political Economy of Weak Treaties, Journal of Political Economy, 2020
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- Bruno Strulovici Learning While Voting: Determinants of Collective Experimentation, Econometrica , 2010
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- Ely, Jeff; George Georgiadis and Luis Rayo Feedback Design in Dynamic Moral Hazard, mimeo, 2023
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- Gabriel Carroll Robustness in mechanism design and contracting, Annual Review of Economics, 2019
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- Gustavo Manso Motivating Innovation, The journal of Finance, 2011
- Halac, Marina and Pierre Yared Fiscal Rules and Discretion in a World Economy, American Economic Review, 2018
- Halac, Marina, Elito Lipnowski and Daniel Rappoport Rank uncertainty in Organizations, American Economic Review, 2021
- Harry Pei Reputation building under observational learning, Review of Economic Studies, 2023
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- Mailath, George and Larry Samuelson Repeated Games and Reputations: Long-Run Relationships, Oxford University Press, 2006
- Roger Myerson Moral Hazard in High Office and the Dynamics of Aristocracy, Econometrica, 2015
- Seierstad, Atle and Knut Sydsaeter Optimal Control Theory with Economic Applications, Elsevier North-Holland, 1986
- Simon Board Relational Contracts and the Value of Loyalty, American Economic Review, 2011
- Sofia Moroni Experimentation in Organizations, Theoretical Economics, 2022
- Steven Callander Searching and Learning by Trial and Error, American Economic Review, 2011
- Strulovici Bruno and Martin Szydlowski On the smoothness of value functions and the existence of optimal strategies in diffusion models, Journal of Economic Theory, 2015