

## Advanced Topics in Applied Economics

2013/2014

Codi: 42621

Crèdits: 15

Titulació	Tipus	Curs	Semestre
4313384 Recerca Aplicada en Economia i Empresa / Applied Research in Economics and Business	OT	0	2

### Professor de contacte

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### Utilització d'idiomes

Llengua vehicular majoritària: anglès (eng)

### Prerequisites

none

### Objectius

To provide a wider understanding in advanced techniques and topics for empirical research in economics.

### Competències

- Recerca Aplicada en Economia i Empresa / Applied Research in Economics and Business
- Analyse, synthesise and critically evaluate a certain matter of scientific interest and/or real problem case, considering its different perspectives and supporting the results and conclusions obtained.
- Possess and understand knowledge that provides a basis or opportunity for originality in the development and/or application of ideas, often in a research context
- Produce and draft projects, technical reports and academic articles in English, making use of the appropriate terminology, argumentation, communication skills and analytical tools for each context, and rigorously evaluate those produced by third parties.
- Select and apply different and adequate models and/or theoretical frameworks, methodologies and techniques for scientific research, data sources and IT tools for research applied to business and economics.
- Student should possess an ability to learn that enables them to continue studying in a manner which is largely self-supervised or independent
- Understand, analyse and evaluate the main scientific advances and existing lines of research in the fields of contemporary applied and public economics in a globalised context in order to integrate this in scientific research, projects and/or public or private policy. (Speciality in Research in Applied Economics)
- Work in international and inter-disciplinary teams.

### Resultats d'aprenentatge

- Analyse, synthesise and critically evaluate a certain matter of scientific interest and/or real problem case, considering its different perspectives and supporting the results and conclusions obtained.
- Possess and understand knowledge that provides a basis or opportunity for originality in the development and/or application of ideas, often in a research context
- Produce and draft projects, technical reports and academic articles in English, making use of the appropriate terminology, argumentation, communication skills and analytical tools for each context, and

rigorously evaluate those produced by third parties.

4. Propose empirical problems and solve them using the most suitable quantitative methodologies in terms of macroeconomic questions and territorial economy.
5. Recognise and distinguish the theoretical and empirical knowledge associated to public economics both in its most advanced microeconomic fundamentals and in application to questions such as tax design and environmental economics and the social evaluation of projects.
6. Recognise and distinguish the theoretical and empirical knowledge associated to questions of efficiency and equity in economics, and how they can contribute to the economic development of societies.
7. Resolve global socio-economic problems and challenges in a context of the increasing integration of the global economy by applying economic analysis.
8. Student should possess an ability to learn that enables them to continue studying in a manner which is largely self-supervised or independent
9. Work in international and inter-disciplinary teams.

## Continguts

### Advanced econometrics

Themes:

- 1- Regression model review
- 2- Systems of equations
- 3- Dynamic models
- 4- Unit roots and cointegration
- 5- Discrete choice models : binomial and multinomial choice models

### Public Economics and Ecological Economics

Themes:

Public Economics:

1. A framework for normative analysis
2. Commodity taxation
3. Income taxation
4. Tax evasion
5. Intertemporal efficiency
6. Social security
7. Taxation and economic growth

Ecological economics:

1. The relationship between the economy and the environment. Economic analysis of environmental problems.
2. Different conceptions and indicators of sustainable development.
3. Economic appraisal of environmental policies.
4. The relationship between economic growth and environmental quality. Environmental policy tools.
5. Global environmental problems: Economics and policy of climate change.

## Labour Macroeconomics and Inequality

Themes:

Labor macroeconomics:

- 1- Labor supply and labor demand
- 2- Wage Rigidities and the New Keynesian Model
- 3- NAIRU models
- 4- Chain reaction theory and structuralism
- 5- Old and new Phillips curve
- 6- Wages curve

Inequality:

- 1- The measurement of economic inequality
- 2- The measurement of economic poverty
- 3- Economic mobility
- 4- Intergenerational Mobility and Equality of Opportunity
- 5- Vertical equity and progressivity
- 6- Horizontal equity and differences in tax treatment

## **Metodologia**

Classes, essay writing, tutorials, study and research activities.

## **Activitats formatives**

Títol	Hores	ECTS	Resultats d'aprenentatge
Tipus: Dirigides			
Classes	93,75	3,75	1, 2, 3, 4, 5, 6, 7, 8, 9
Tipus: Supervisades			
Essays and tutorials	56,25	2,25	1, 2, 3, 4, 5, 6, 7, 8, 9
Tipus: Autònomes			
Study and research activities	207	8,28	1, 2, 3, 4, 5, 6, 7, 8, 9

## **Avaluació**

Class attendance, presentation and discussion of essays and problems, presentation and discussion of readings, exams.

**Activitats d'avaluació**

Títol	Pes	Hores	ECTS	Resultats d'aprenentatge
Class attendance	5%	0	0	1, 2, 3, 4, 5, 6, 7, 8, 9
Exams	70%	8	0,32	1, 2, 3, 4, 5, 6, 7, 8, 9
Presentation and discussion of essays and problems	15%	5	0,2	1, 2, 3, 4, 5, 6, 7, 8, 9
Presentation and discussion of readings	10%	5	0,2	1, 2, 3, 4, 5, 6, 7, 8, 9

**Bibliografia**

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