

**Advanced Topics in Applied Economics**

Code: 43791  
ECTS Credits: 9

Degree	Type	Year	Semester
4313384 Applied Research in Economics and Business	OT	0	2

The proposed teaching and assessment methodology that appear in the guide may be subject to changes as a result of the restrictions to face-to-face class attendance imposed by the health authorities.

**Contact**

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**Use of Languages**

Principal working language: english (eng)

**Teachers**

Gabriel Alejandro Facchini Palma

**Prerequisites**

None

**Objectives and Contextualisation**

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

**Competences**

- 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.

**Learning Outcomes**

1. 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.
2. Correctly apply the advanced econometric techniques needed to obtain empirical results that are valid for the practical problem being studied.
3. 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
4. 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.
5. Propose empirical problems and solve them using the most suitable quantitative methodologies in terms of macroeconomic questions and territorial economy.
6. Recognise and discern theoretical and empirical knowledge related to the macroeconomic functioning of the labour market.
7. 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.
8. 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.
9. Resolve global socio-economic problems and challenges in a context of the increasing integration of the global economy by applying economic analysis.
10. Student should possess an ability to learn that enables them to continue studying in a manner which is largely self-supervised or independent
11. Work in international and inter-disciplinary teams.

## **Content**

### [Advanced econometrics](#)

Themes:

- 1- Linear models and OLS
- 2- Instrumental variables
- 3- Panel data
- 4- Maximum likelihood methods
- 5- Discrete choice models
- 6- Censored regression models
- 7- New methods of identification

### [Public Economics](#)

Themes:

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

## Labour Macroeconomics

Themes:

- 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

## Methodology

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

The proposed teaching methodology may undergo some modifications according to the restrictions imposed by the health authorities on on-campus courses.

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

## Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Directed	56.25	2.25	1, 2, 4, 5, 3, 10, 7, 8, 6, 9, 11
Type: Supervised			
Supervised	33.75	1.35	1, 2, 4, 5, 3, 10, 7, 8, 6, 9, 11
Type: Autonomous			
Autonomous	124.2	4.97	1, 2, 4, 5, 3, 10, 7, 8, 6, 9, 11

## Assessment

Module Assessment (general rules to be included in all lective modules)

*Calendar of evaluation activities*

The dates of the evaluation activities of the module (final exams, exercises in the classroom, assignments,...) will be announced well in advance during the semester.

"The dates of evaluation activities cannot be modified, unless there is an exceptional and duly justified reason why an evaluation activity cannot be carried out. In this case, the degree coordinator will contact both the teaching staff and the affected student, and a new date will be scheduled within the same academic period to make up for the missed evaluation activity." Section 1 of Article 115. Calendar of evaluation activities (Academic Regulations UAB). Students of the Faculty of Economics and Business, who in accordance with the previous paragraph need to change an evaluation activity (mainly final exam/s) date must process the request by filling out an Application for exams' reschedule [https://eformularis.uab.cat/group/deganat\\_feie/application-for-exams-reschedule](https://eformularis.uab.cat/group/deganat_feie/application-for-exams-reschedule)

### *Grade revision process*

After all grading activities of the module have ended, students will be informed of the date and way in which the module grades will be published. Students will be also be informed of the procedure, place, date and time of grade revision following University regulations.

### *Retake Process*

"To be eligible to participate in the retake process of the module, it is required for students to have been previously evaluated for at least two thirds of the total evaluation activities of the module." Section 3 of Article 112 ter. The recovery (UAB Academic Regulations). Additionally, it is required that the student will have achieved an average grade of the module between 3.5 and 4.9

The date of the retake exam will be duly announced by the coordination of the program. Students who take this exam and pass, will get a grade of 5 for the module. If the student does not pass the retake, the grade will remain unchanged, and hence, student will fail the module.

### *Irregularities in evaluation activities*

In spite of other disciplinary measures deemed appropriate, and in accordance with current academic regulations, "in the case that the student makes any irregularity that could lead to a significant variation in the grade of an evaluation activity, it will be graded with a 0, regardless of the disciplinary process that can be instructed. In case of various irregularities occur in the evaluation of the same module, the final grade of this module will be 0" Section 10 of Article 116. Results of the evaluation. (UAB Academic Regulations).

### *Not Assessed Grade*

A student can obtain "Not Assessed" grade in the module only when he/she has not participated in any of the evaluation activities within it. Therefore, students who perform even only one evaluation component cannot obtain "Not Assessed" grade in the module.

## **Assessment Activities**

Title	Weighting	Hours	ECTS	Learning Outcomes
Class attendance	5%	0	0	1, 2, 4, 5, 3, 10, 7, 8, 6, 9, 11
Exams	70%	4.8	0.19	1, 2, 4, 5, 3, 10, 7, 8, 6, 9, 11
Presentation and discussion of essays and problems	15%	3	0.12	1, 2, 4, 5, 3, 10, 7, 8, 6, 9, 11
Presentation and discussion of readings	10%	3	0.12	1, 2, 4, 5, 3, 10, 7, 8, 6, 9, 11

## **Bibliography**

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- Hindriks, J. and G.D. Myles (2006), Intermediate Public Economics, MIT Press.
- Jha, R. (2010), Modern Public Economics, Routledge, 2nd edition.
- Salanié, B. (2003), The Economics of Taxation, MIT Press.
- Henry, B.; Karanassou, M. and D. Snower (2000), "Adjustment Dynamics and the Natural Rate: an Account of UK unemployment", Oxford Economic Papers, 52. pp. 178-203.
- Karanassou, M., Sala, H. and D. Snower (2007), "The macroeconomics of the labor market: Three fundamental views", Portuguese Economic Journal, vol. 6 (3), pp. 151-180.
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- Layard, P., Nickell, S. and R. Jackman (1991), " Unemployment: Macroeconomic Performance and the Labor Market", Oxford University Press. Chapters 1 and 9.
- Karanassou, M., Sala, H. and D. Snower (2009), "Phillips Curves and Unemployment Dynamics: A Critique and a Holistic Perspective", Journal of Economic Surveys, vol. 24 (1), pp. 1-51.
- Blanchard, O. and L. Katz (1999), "Wage Dynamics: Reconciling Theory and Evidence", American Economic Review Papers and Proceedings, vol. 89, 2. (NBER Working Paper 6924.)

## Software

- Text editors (Word, Pages, LaTeX, ...).
- Spreadsheets (Excel, Numbers, LaTeX, ...).
- Slide show presentation (PowerPoint, Keynote, LaTeX, ...).
- Statistical/Econometric software and/or for data management (Stata, R, Eviews, Python, ...).