



# COMILLAS

UNIVERSIDAD PONTIFICIA

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**Syllabus**  
**2025 - 2026**

## TECHNICAL SHEET OF THE SUBJECT

### Data of the subject

|                   |                                                                                                               |
|-------------------|---------------------------------------------------------------------------------------------------------------|
| Subject name      | Quantitative Models for Business and Economics                                                                |
| Subject code      | E000005834                                                                                                    |
| Main program      | <a href="#">Bachelor's Degree in Business Administration and Management</a>                                   |
| Involved programs | Grado en Administración y Dirección de Empresas y Grado en Derecho (E-3 16) [Third year]                      |
| Level             | Reglada Grado Europeo                                                                                         |
| Quarter           | Semestral                                                                                                     |
| Credits           | 6,0 ECTS                                                                                                      |
| Type              | Obligatoria (Grado)                                                                                           |
| Department        | Departamento de Métodos Cuantitativos                                                                         |
| Coordinator       | Francisco Borrás Palá                                                                                         |
| Office hours      | Request an appointment. The tutoring schedules will be available to each teacher when the schedules are final |

### Teacher Information

#### Teacher

|            |                                       |
|------------|---------------------------------------|
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#### Teacher

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#### Teacher

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#### Teacher

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|----------------|-------------------------------------------------------|
| Phone          | 2224                                                  |
| <b>Teacher</b> |                                                       |
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| <b>Teacher</b> |                                                       |
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| <b>Teacher</b> |                                                       |
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| <b>Teacher</b> |                                                       |
| Name           | Olaya García Vázquez                                  |
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| <b>Teacher</b> |                                                       |
| Name           | Pablo Carlos del Saz-Orozco Huang                     |
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| <b>Teacher</b> |                                                       |
| Name           | Raquel Galazo García                                  |
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## SPECIFIC DATA OF THE SUBJECT

**Contextualization of the subject**



## Contribution to the professional profile of the degree

Within the area of economics and business, in the empirical research; conclusions about the effect of a variable in other one can be obtained throughout the realization of experiment, if data allows the experimental control, or throughout econometrics model if we have observational data and are given to the researcher.

For the first case, the subject studies the basis of the design and analysis of experiments, and also the basic associated statistical techniques (hypothesis tests in order to compare means or proportions among groups)

For the observational data, the subject carries out an introduction to econometric techniques. Econometrics, understood as the art of building models, allows the exploration, the quantification and the empirically contrast, using real data of micro and macro type, of the existing relationship between economic and business variables and of the theories established about them.

Results gotten out of the models allow the estimations of the effect that a change in a variable would have in the other one, and also the realization of predictions.

The practical character of the subject allows to put in practice many concepts and theories that have already been introduced in other subjects, being of economic type (production or demand models, gravitational models of international commerce), of marketing, or finance (CAPM models).

The obligation of having to carry out a project of empirical application allows the student to introduce his or her-self in the steps to applied scientific research, emphasizing the transcendental fact of following a clear and objective methodology.

## Prerequisites

- Basis of economic analysis (micro and macro)
- Basis of matrix algebra
- Basis of inference and descriptive statistics
- Intermediate management of spreadsheet

## Competencies - Objectives

### Competences

#### GENERALES

|      |                                              |                                                                                                                                       |
|------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| CG01 | Capacidad de análisis y síntesis             |                                                                                                                                       |
|      | RA1                                          | Analiza la información identificando sus elementos más significativos                                                                 |
|      | RA2                                          | Realiza la abstracción y simplificación necesaria para modelizar estadísticamente el problema real planteado                          |
|      | RA3                                          | Integra el análisis gráfico, verbal y los datos cuantitativos y cualitativos para definir el modelo estadístico apropiado al problema |
| CG02 | Resolución de problemas y toma de decisiones |                                                                                                                                       |
|      | RA1                                          | Conoce las metodologías aplicables para resolver el problema real                                                                     |
|      |                                              |                                                                                                                                       |



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|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                    | <b>RA2</b>                                                                                                                                | Sabe aplicar dichas metodologías                                                                                                                                             |
|                    | <b>RA3</b>                                                                                                                                | Reconoce el alcance de las conclusiones y los supuestos necesarios para la validez de las mismas                                                                             |
| <b>CG04</b>        | Capacidad de gestionar información proveniente de fuentes diversas                                                                        |                                                                                                                                                                              |
|                    | <b>RA1</b>                                                                                                                                | Conoce fuentes y bases de datos profesionales macro y microeconómicas                                                                                                        |
|                    | <b>RA2</b>                                                                                                                                | Sabe tratar y juzgar críticamente las fuentes utilizadas para que sean válidas en el análisis                                                                                |
| <b>CG05</b>        | Conocimientos generales básicos sobre el área de estudio                                                                                  |                                                                                                                                                                              |
|                    | <b>RA1</b>                                                                                                                                | Desarrolla habilidades necesarias para el estudio e investigación independiente                                                                                              |
|                    | <b>RA2</b>                                                                                                                                | Encuentra por sí mismo aplicaciones y extensiones de los conceptos y metodologías estudiadas                                                                                 |
| <b>CG06</b>        | Comunicación oral y escrita en la propia lengua                                                                                           |                                                                                                                                                                              |
|                    | <b>RA1</b>                                                                                                                                | Expresa correctamente la metodología empleada y los resultados y conclusiones obtenidas del análisis efectuado                                                               |
|                    | <b>RA2</b>                                                                                                                                | Comunica de forma efectiva, a público no especialista, los informes y análisis efectuados                                                                                    |
| <b>CG08</b>        | Conocimientos de informática relativos al ámbito de estudio                                                                               |                                                                                                                                                                              |
|                    | <b>RA1</b>                                                                                                                                | Conoce y emplea de forma suficiente herramientas informáticas de uso común para el análisis estadístico                                                                      |
| <b>ESPECÍFICAS</b> |                                                                                                                                           |                                                                                                                                                                              |
| <b>CE10</b>        | Capacidad para tratar, sintetizar y analizar la información. Conociendo los fenómenos aleatorios y los procesos de inferencia estadística |                                                                                                                                                                              |
|                    | <b>RA1</b>                                                                                                                                | Conoce, diferencia y emplea los conceptos estadísticos para el análisis de la información- Identificación de variables, codificación y presentación sistemática de los datos |
|                    | <b>RA2</b>                                                                                                                                | Deduce información estadística relevante de un conjunto de datos                                                                                                             |
|                    | <b>RA3</b>                                                                                                                                | Analiza e interpreta correctamente las relaciones entre distintas variables                                                                                                  |
|                    | <b>RA4</b>                                                                                                                                | Comprende y aplica correctamente los conceptos fundamentales de la teoría de la probabilidad                                                                                 |
|                    | <b>RA5</b>                                                                                                                                | Comprende el concepto de variable aleatoria, discreta o continua, y elabora correctamente su distribución de probabilidad.                                                   |
|                    | <b>RA6</b>                                                                                                                                | Conoce la distribución de probabilidad conjunta de dos variables, analizando correctamente las relaciones de asociación y/o dependencia entre ellas                          |
|                    | <b>RA7</b>                                                                                                                                | Conoce distintos tipos de muestreo. Determina correctamente probabilidades en el caso de Muestro Aleatorio Simple                                                            |



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|              |                                                                                                  |                                                                                                                                                                                  |
|--------------|--------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|              | <b>RA8</b>                                                                                       | Reconoce y diferencia la aplicación de distintos métodos de estimación y contrastación, adecuados al tipo de información disponible y a los objetivos pretendidos.               |
|              | <b>RA9</b>                                                                                       | Aplica correctamente los métodos de inferencia a situaciones reales sencillas, tomando decisiones oportunas e interpretándolas correctamente                                     |
| <b>CE11</b>  | Conocimiento y comprensión de los Modelos Econométricos                                          |                                                                                                                                                                                  |
|              | <b>RA1</b>                                                                                       | Conoce las principales técnicas y métodos de construcción de modelos de regresión lineal y las aplica correctamente a datos reales                                               |
|              | <b>RA2</b>                                                                                       | Sabe interpretar críticamente los resultados obtenidos en la estimación de un modelo econométrico.                                                                               |
|              | <b>RA3</b>                                                                                       | Reconoce las posibilidades y utilidades del empleo de métodos econométricos en las diferentes áreas de la administración de empresas y de la economía                            |
| <b>CEOPT</b> | Conocimiento y comprensión de las principales Técnicas de Predicción y el Análisis Multivariante |                                                                                                                                                                                  |
|              | <b>RA1</b>                                                                                       | Conocer los principales modelos econométricos empleados en el ámbito de las finanzas especialmente los relativos a la modelización de la volatilidad                             |
|              | <b>RA2</b>                                                                                       | Conocer los principales modelos econométricos empleados en el ámbito de la economía aplicada tanto en el campo microeconómico como macroeconómico                                |
|              | <b>RA3</b>                                                                                       | Conocer las principales técnicas clásicas de dependencias e interdependencias, sabiendo seleccionar la más adecuada según el tipo de problemas y el conjunto de datos disponible |
|              | <b>RA4</b>                                                                                       | Adquirir una perspectiva general de las nuevas técnicas de análisis de datos aplicables al nuevo paradigma del análisis masivo de datos (Big Data)                               |
|              | <b>RA5</b>                                                                                       | Conocer los conceptos básicos de los procesos de predicción económica y empresarial                                                                                              |
|              | <b>RA6</b>                                                                                       | Saber realizar predicciones , seleccionando y aplicando la técnica más adecuada en cada caso                                                                                     |

## THEMATIC BLOCKS AND CONTENTS

### Contents - Thematic Blocks

#### Topic 1. Design of experiments

Objectives and analysis of experimental analysis

The experimental control

Applications in Economics and Business area



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### Topic 2. Hypothesis testing

Hypothesis testing. Fundamentals and elements

Hypothesis testing on a parameter

Hypothesis testing for 2-groups experiments: average and proportion comparisons

Applications in Economics and Business area

## BLOCK 2. CAUSAL MODELS

### Topic 3. The multiple linear regression model

Economic and econometric models: elements and work stages

The model's basic hypotheses

### Topic 4. Estimation

Estimation of ordinary minimum squares

Results interpretation

Goodness of fit

Applications in Economics and Business area

### Topic 5.

Modelling of qualitative characteristics and non-linearities

### Topic 6. Validation. Hypothesis testing

Statistical and economical validity

Constraints and Individual and joint tests of significance

Applications in the Economics and Business area

### Topic 7: Logit models



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Limitations of the linear probability model

Main characteristics and interpretation of Logit and Probit results

Other models

### Topic 8. Prediction

Utilization of a professional data set

Interpretation of regression results and definition of the reference person

Sensitivity of estimators to changes in specification

### Topic 9: Multicollinearity, Heteroscedasticity and Autocorrelation

Perfect multicollinearity

Near multicollinearity: consequences, detection and correction

Heteroscedasticity and Autocorrelation: Concept, causes and consequences

Heteroscedasticity and Autocorrelation detection: residual graphs and hypothesis test

Heteroscedasticity and Autocorrelation: Correction and prevention. Generalized minimum squares. Robust estimation

## TEACHING METHODOLOGY

### General methodological aspects of the subject

#### In-class Methodology: Activities

Presentation about the general context of every topic

Realization and discussion of examples of practical application

Correction of fundamental issues in weekly workshops

General tutoring of practical application of tasks

Basic introduction to the use of econometrical technological applications and obtainment and treatment of economic data gotten out of web sources

Realization of a learning game each week

Realization of intermediate tests

Realization of final exam of the subject

CG01, CG02, CG04,  
CG05, CG06, CG08, CE11



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## Non-Presential Methodology: Activities

Realization of the final project of empirical application (proposal + final handing). It will include the presentation, in an informative outline, of the main research results (poster, graphical abstract or video)

CG01, CG02, CG04,  
CG05, CG06, CG08, CE11

## SUMMARY STUDENT WORKING HOURS

| CLASSROOM HOURS                                                     |                                                      |                                                 |
|---------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------|
| Lecciones de carácter expositivo                                    | Ejercicios y resolución de casos y de problemas      |                                                 |
| 30.00                                                               | 30.00                                                |                                                 |
| NON-PRESENTIAL HOURS                                                |                                                      |                                                 |
| Trabajos monográficos y de investigación, individuales o colectivos | Estudio individual y/o en grupo y lectura organizada | Ejercicios y resolución de casos y de problemas |
| 20.00                                                               | 35.00                                                | 35.00                                           |
| ECTS CREDITS: 6,0 (150,00 hours)                                    |                                                      |                                                 |

## EVALUATION AND CRITERIA

The use of AI to produce full assignments or substantial parts thereof, without proper citation of the source or tool used, or without explicit permission in the assignment instructions, will be considered plagiarism and therefore subject to the University's General Regulations.

| Evaluation activities                                                                                                                              | Evaluation criteria                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Weight |
|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| <b>FINAL EXAM</b><br><br>A final exam for the course (common to the corresponding groups) will be conducted, <b>covering the entire syllabus</b> . | <p>Numerical grading 0-10.</p> <p>Priority will be given to the understanding of concepts and their application in practical cases rather than mere numerical calculation.</p> <p><b>It will be necessary to obtain at least 4.5 in the exam to pass the subject.</b></p> <p>80% of the exam grade will correspond to multiple-choice questions (without penalty), and the remaining 20% will correspond to open-ended questions.</p> <p><b>To grade the open-ended questions, the multiple-choice section must score at least 3.5 out of 10.</b> If this requirement is not met, the final exam grade will be the score out of 10 from the multiple-choice section.</p> | 60     |





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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| <p><b>FINAL PROJECT OF EMPIRICAL APPLICATION</b>, with the structure and format of an academic paper.</p> <p>It will be carried out in groups, using real data and applying knowledge from topics 3, 4, 5, 6, and 9, and optionally from topic 7.</p> | <p><b>It will be necessary to obtain at least 5 in the project to pass the subject.</b> In the event that the project is failed, the Ordinary Call will be failed. In this case, the delivery may be made again on the day of the final exam of the Extraordinary Call, without the need to take such exam again, unless exam results in a grade lower than 4.5 in the Ordinary Call.</p> <p>Rating from 0 to 10 (according to rubric):</p> <p>The project consists of submitting a written proposal, a final written submission, and a final oral defense, which must be conducted by all members of the group. It is necessary to pass the oral defense in order to average the grade with the written part. In the event of failing the oral defense, the grade for the project will be the one obtained in said oral defense.</p> <p>The final grade for the project may differ among the group members, depending on the oral defense performed by each individual.</p> | 20 |
| <p><b>CONTINUOUS EVALUATION IN CLASS:</b> short tests at the end of each topic (in some cases several topics can be put together in one test)</p>                                                                                                     | <p>Numeric rating 0-10.</p> <p>Short tests of about 15-25 minutes (100% test type, approximately 5-6 tests) will always be done in person,</p> <p>The teacher could replace the first test ("design of experiments") by a short practical assignment with the same weight of such test in the final grade. The oral defense of this work may be requested,</p> <p>The tests not carried out will have a 0, unless the absence is for a justified reason by the tutor of the group. In this case, the test will be annulled and its percentage in the average of the tests will increase that of the final exam. For the average of these tests, the worst grade will be eliminated.</p>                                                                                                                                                                                                                                                                                      | 20 |

### Ratings

**The use of ChatGPT or similar Artificial Intelligence tools during tests, practical assignments, or the final exam will be considered fraud and will result in a grade of "0" for the ordinary call and the loss of the extraordinary call.** In any case, the teaching team of the course encourages the use of these tools for studying and preparing for the subject. They consider it a very useful tool for raising questions and preparing practical exercises, although always under the student's responsibility, as the answers provided may not be entirely accurate.



**Smartwatches** are not allowed during continuous assessment tests or the final exam.

**Only basic calculators** (with addition, subtraction, multiplication, division, and square root functions) are permitted during continuous assessment tests and the final exam, as more advanced calculators are not necessary.

**Students in ORDINARY CALL** (1st call) **and EXTRAORDINARY** (2nd call): the same grading system will be followed: all the components of continuous evaluation carried out during the course are weighted.

- It is an essential requirement to pass the subject in any of the calls that the exam obtains a grade of at least 4.5 points (on a scale of 0 to 10 points). In any case, the average grade considering all the evaluation items must be greater than 5.
- It is an essential requirement to pass the subject in any of the first 2 calls that the empirical project obtains a grade of at least 5 points (on a scale of 0 to 10 points). In any case, the average grade considering all the evaluation items must be greater than 5.

In the first and second calls, if the final exam has a grade lower than 4.5 and/or in the empirical project the grade is lower than 5, the student's final grade will be the lowest of these three: a) grade of the exam; b) grade of the practical work; c) the one that results from calculating the average with all the evaluation items.

The student who has not done or who has failed the practical project in the Ordinary Call (1st call) must do it again for the Extraordinary (2nd call). The underlying philosophy is that the extraordinary call cannot be a way to avoid the completion of the empirical final project.

It will be possible to obtain up to 0.5 extra points for participation in various voluntary activities proposed by the teacher.

At the discretion of each teacher, there may be an additional test to determine the students who are awarded the Honors.

**EXCHANGE STUDENTS (OUT) AND REST OF CALLS** (3rd and following): It is strongly recommended to carry out and deliver the empirical application work as a way to better understand the subject and know how to apply it to the economic and business reality. In the case of students in the 3rd and subsequent calls, it must be a new project, with a different topic than the one delivered in the 1st/2nd call. It is also recommended to take the tests and, in such a case, they must notify the corresponding teacher in advance (they will only be done in person and their qualification will follow the criteria indicated in the description of the tests). The final grade for these students will be the best of the following four options: a) 100% exam; b) 75% exam and 25% work; c) 75% exam and 25% tests; d) 50% exam, 25% tests, 25% work.

Students with **SCHOOL WAIVERS** and exceptional situations: this will be dealt with on a case-by-case basis, seeking a balance between equity and learning objectives.

## WORK PLAN AND SCHEDULE

| Activities                    | Date of realization                   | Delivery date             |
|-------------------------------|---------------------------------------|---------------------------|
| Proposal of empirical project | Middle of the course                  | Middle of the course      |
| Empirical project             | From the teacher's OK to the proposal | April 8(aproximately)     |
| Oral defense                  | penultimate week of class             | penultimate week of class |



## BIBLIOGRAPHY AND RESOURCES

### Basic Bibliography

#### TEXT BOOKS:

- Martínez de Ibarreta, Álvarez, Borrás, Budría, Curto, Escobar, Portela (2018) 101 PREGUNTAS DE MODELOS CUANTITATIVOS (Y SUS RESPUESTAS), EV Services (disponible en la librería de la Universidad)
- Martínez de Ibarreta, Álvarez, Borrás, Escobar, Curto, Budría (2017) MODELOS CUANTITATIVOS PARA LA ECONOMIA Y LA EMPRESA EN 101 EJEMPLOS, EV Services (disponible en la librería de la Universidad)
- Hill, Griffiths, Lim (2018) PRINCIPLES OF ECONOMETRICS, 5ª edición (International Student Version), Wiley

#### PAPERS:

Reading of some articles of scientific magazines for the realization of some of the workshops to be handed periodically:

- Fair, Ray C, 1978. A theory of extramarital affairs. Journal of political economy, University of Chicago Press, vol. 86(1), pages 45-61, February.
- Hamermesh, Daniel S & Biddle, Jeff E, 1994. Beauty and the labor market. American economic review. American Economic Association, vol. 84(5), pages 1174-94, December.
- Bernard, Ab. & Busse, Mr (2004). Who wins the Olympic Games: Economic resources and medal totals. Review Of Economics And Statistics vol. 86 (1), pages 413-417

#### WEB PAGES:

<http://www.learneconometrics.com/gretl.html> for the manual of application of software Gretl :Adkins, L.C. Using Gretl for Principles of Econometrics

#### NOTES:

In Moodle Rooms about some topics and sections

#### SOFTWARE:

GRETl (free software) available in <http://gretl.sourceforge.net/>

### Complementary Bibliography

#### TEXT BOOKS:

- Gujarati, D.M (2009) Econometría (5ª edición), Mc Graw Hill
- Stock, J. y Watson, M. (2012) Introducción a la Econometría (3ª ed), Ed. Pearson
- Wooldridge, J.M. (2010) Introducción a la Econometría, un Enfoque Moderno (4ª edición), Cengage Learning

#### WEB PAGES:



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References in Moodle to some interesting directions to compliment and apply some concepts

In compliance with current regulations on the **protection of personal data**, we would like to inform you that you may consult the aspects related to privacy and data [that you have accepted on your registration form](#) by entering this website and clicking on "download"

<https://servicios.upcomillas.es/sedeelectronica/inicio.aspx?csv=02E4557CAA66F4A81663AD10CED66792>