

1. BASIC DATA

Subject	Quantitative Methods
Program	Master's Degree in Trade and International Economic Relations
School	School of Business, Economy and Communication
Course	Module VI
ECTS	6 ECTS
Type	Elective
Language/s	English
Modality	On-campus/ Campus-based
Semester	Second Semester
Academic Year	2024/2025
Coordinator	Dr. Hongsong Wang

2. PRESENTATION

Quantitative Methods is the sixth module of the Masters in Trade and International Economic Relations, in the research pathway, with a value of 6 ECTS, like the rest of the modules.

This module aims to provide students with the knowledge and skills to use advanced research methods, statistical tools and econometric models in the service of operational research.

3. COMPETENCIAS Y RESULTADOS DE APRENDIZAJE

General Competences:

- GC.1. Capacity for Interrelation, perfecting the ability to perceive, analyse and interpret the environment in order to be able to integrate information and make decisions in new environments.
- GC.2. Integration of Knowledge, i.e. having an integrated vision of all the dimensions of the company or international organisation, in order to be able to analyse problems and look for solutions as a group.
- GC.3. Ability to understand and take advantage of cultural diversity, developing respect for diversity.
- GC.4. Ability to work as part of a team, innovative mentality and decision-making.
- GC.5. Communication skills (in both Spanish and English) to debate and present their ideas and business projects in each area of the programme to a specialised or non-specialised forum.
- GC.7. Critical and self-critical sense.

Specific Competences:

- SC.1. Lead projects and teams from an integral ethical and socially responsible approach, assessing the impact of their decisions on profits, the market, people and society.
- SC.2. Master the keys to the major world economic areas in order to convert them into competitive advantages for the company.

- SC.5. Develop the competences of a manager: leadership, emotional intelligence, communication skills, team management, group work, planning, conflict resolution, negotiation and results orientation, always from a multicultural perspective and respecting diversity.
- SC.9. Identifying the risks of internationalisation and recommending the tools and instruments to protect the company against them.

Learning Outcomes:

- LO1. Apply the different existing methodologies for the processes of theoretical and practical scientific research.
- LO2. Master the sophisticated statistical methods for data analysis and the subsequent extrapolation of results in different studies and research work. Select the appropriate statistics for each study and know how to apply them.
- LO3. Use current techniques for market research and the opportunities they offer for data analysis.
- LO4. Master the technological programmes for data analysis and modelling. Be able to define basic econometric models in order to be able to make predictions based on them and analyse the appropriate differences according to the modules applied.

The table below shows the relationship between the competences developed in the module and the learning outcomes pursued.

Competencias	Resultados de aprendizaje
GC1, GC2, GC3, GC4, GC5, GC7 SC1, SC2, SC5, SC9	LO1. Evaluate the consequences of a global international policy (economic, labour and social).
GC1, GC2, GC3, GC4, GC5, GC7 SC1, SC2, SC5, SC9	LO2. Put into practice the competences of a manager: leadership, emotional intelligence, communication skills, team management, group work, planning, conflict resolution, negotiation and results orientation, always from a multicultural perspective and respecting diversity
GC1, GC2, GC3, GC4, GC5, GC7 SC1, SC2, SC5, SC9	LO3. Master the strategies for the future to be able to manage the necessary resources for a company's internationalisation plan, the relaunch of a new activity or to open the company to new markets.
GC1, GC2, GC3, GC4, GC5, GC7 SC1, SC2, SC5, SC9	LO4. Lead projects and teams from an integral ethical and socially responsible approach, assessing the impact of international economic policy decisions on profits, the market, people and society.

4. CONTENTS

The module is divided into four themes:

1. Practical Methodology of Scientific Research.

2. Advanced Statistics
3. Market Research
4. Econometric techniques

5. TEACHING-LEARNING METHODOLOGIES

The following are the types of teaching-learning methodologies to be applied:

- Presentations.
- Seminars.
- Case studies.
- Discussion of practical examples and real cases.
- Cooperative learning.

6. TRAINING ACTIVITIES

The following table shows the types of training activities to be carried out and the number of hours the student will spend on each:

Training activities	Hours
Presentation of knowledge in the classroom using the seminar method.	37,5
Seminar method.	25
Case classroom: teamwork for CASE analysis.	12,5
Group coaching on the developed competences.	7,5
Collaborative learning.	25
Integrative work on the module.	7,5
Presentation in the virtual classroom of knowledge. Students will carry out readings and analyses, as well as participate in virtual forums to demonstrate their ability to discuss and debate.	5
Virtual forums where they will demonstrate their ability to discuss.	5
Individual activities in the virtual classroom related to the content.	25
TOTAL	150 h

7. EVALUATION

The following is a list of the assessment systems and their weighting in the total grade for the module:

Sistema de evaluación	Pesos
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Activity 1	<ul style="list-style-type: none"> Carrying out and participating in classroom activities and cases. 	25%
Activity 2	<ul style="list-style-type: none"> Completion of virtual classroom activities. 	15%
Activity 3	<ul style="list-style-type: none"> Teacher's report on participation in the seminar. 	25%
Activity 4	<ul style="list-style-type: none"> Presentation of a comprehensive team work of the module. 	35%

On the Virtual Campus, when you access the module, you will be able to consult in detail the assessment activities to be carried out, as well as the delivery dates and assessment procedures for each of them.

7.1. Ordinary Call

In order to pass the module in the ordinary exam, you must obtain a mark of 5 out of 10 in the final grade (weighted average) of the module

7.2. Extraordinary Call

In order to pass the module in the extraordinary call, it is necessary to obtain a grade higher than or equal to 5 out of 10 in the final grade (weighted average) of the module.

The activities that have not been passed in the ordinary call must be submitted, after having received the appropriate corrections from the teacher, or those that have not been submitted..

8. TIMETABLE

This section provides an approximate timetable with delivery dates (weeks) for the evaluable activities of the module:

Assesments	Weeks
Activity 1	17-20
Activity 2	19-20
Activity 3	20
Activity 4	20-21

This timetable may be subject to modifications for logistical reasons. Any modification will be notified to the student in due time and form.

9. BIBLIOGRAPHY:

The reference works of the module are as follows:

- Box, G.E.P.; Jenkins, G.M. & Reinsel, G.C. (2008). Time Series Analysis: Forecasting and Control, 4th Edition. Wiley, New York.
- Novales, A. (1997). Estadística y Econometría. McGraw-Hill.
- Peña, D. y Romo, J. (1997). Introducción a la Estadística para las Ciencias Sociales. McGraw-Hill.
- Wooldridge, J.M. (2000). Introductory Econometrics: A Modern Approach. South-Western College Publishing, Thomson Learning.

10. DIVERSITY CARE UNIT

Students with specific educational support needs:

Curricular adaptations/adjustments for students with specific educational support needs, in order to guarantee equal opportunities, will be guideline by the Diversity Attention Unit (UAD).

It is an essential requirement that a report on curricular adaptations/adjustments be issued by this Unit, so students with specific educational support needs should contact: unidad.diversidad@universidadeuropea.es at the beginning of each semester.

11. SATISFACTION SURVEYS

Your opinion matters!

Universidad Europea encourages you to participate in satisfaction surveys to identify strengths and areas for improvement regarding the teaching staff, the degree and the teaching-learning process.

The surveys will be available in the survey area of your Virtual Campus or through your email.

Your evaluation is necessary to improve the quality of the programme. Thank you for your participation.