

COURSE DESCRIPTION

COURSE DETAILS

Title (of the course): **METODOLOGÍA DE LA INVESTIGACIÓN CUANTITATIVA**

Code: 622005

Degree/Master: **MÁSTER UNIVERSITARIO ERASMUS MUNDUS EN JUEGO, EDUCACIÓN, JUGUETES Y LENGUAS** Year: 1

ECTS Credits: 2.0

Classroom hours: 15

Face-to-face classroom percentage: 30.0%

Study hours: 35

Online platform: <http://moodle.uco.es/moodlemap/>

LECTURER INFORMATION

Name: ESPEJO MOHEDANO, ALBERTO ROBERTO (Coordinator)

Department: ESTADÍSTICA, ECONOMETRÍA, INVESTIGACIÓN OPERATIVA, ORGANIZACIÓN DE EMPRESAS Y

Area: ESTADÍSTICA E INVESTIGACIÓN OPERATIVA

Office location: Campus Universitario de Rabanales. Edificio Albert Einstein. Planta 2ª

E-Mail: ma1esmor@uco.es

Phone: 957218344

PREREQUISITES AND RECOMMENDATIONS

Prerequisites established in the study plan

None

Recommendations

None

INTENDED LEARNING OUTCOMES

- | | |
|------|--|
| CG4 | To obtain the theoretical knowledge, the assimilation of contents, and the practical tools to implement and assess research and practice based on data, in order to promote the improvement and continuous development of good practices in professional environments. |
| CG6 | To obtain and understand the knowledge about different cultural traditions and increase intercultural awareness within the family context and future generations in order to achieve a better disposition to accept differences. |
| CB10 | To develop the learning skills which will allow students to continue studying in a self-directed or autonomous way. |
| CT2 | To develop a conceptual, procedural and attitudinal command for the professional exercise of teamwork, as well as for the effective and positive interaction with other people, and the creation of national and international working and research networks. |
| CE2 | To implement their original scientific or didactic research, as well as their innovative ideas, about games, toys, early childhood education, intercultural studies, and early second language acquisition. |
| CE3 | To develop research projects in their own countries and/or in international teams. |



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OBJECTIVES

1. To know the different theories that support research and practice based on quantitative data.
2. To consider the different research hypotheses and statistical hypotheses that can be subjected to empirical contrast, establishing the necessary relationships among the different variables.
3. To know and start in the effective management of different tools and statistical packages for data analysis.

CONTENT

1. Theory contents

1. Fundamentals of quantitative research.
2. The first phase of the research: design, sample, and questionnaires.
3. Approach to assumptions: distribution and exploratory data analysis.
4. Introduction to data analysis.

2. Practical contents

1. Quantitative research designs.
2. Types of study variables.
3. Basic descriptive statistics.

SUSTAINABLE DEVELOPMENT GOALS RELATED TO THE CONTENT

Quality education
Gender equality

METHODOLOGY

Clarifications

For part-time students, their condition and availability in the subject will be taken into account, both in the development of the course and in its evaluation. The adaptation of part-time students (or students with disabilities or special needs) to the subject will be carried out by mutual agreement between the lecturer responsible for the subject and the students involved, during the first week of the course.

Face-to-face activities

Activity	Total
<i>Conference</i>	2
<i>Group work (cooperative)</i>	2
<i>Lab practice</i>	3
<i>Lectures</i>	7
<i>Tutorials</i>	1
Total hours	15

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Off-site activities

Activity	Total
<i>Self-study</i>	35
<i>Total hours</i>	35

WORK MATERIALS FOR STUDENTS

Exercises and activities
 Lessons summary
 References

EVALUATION

Tools	Percentage
Attendance sheets	20%
Final exam	30%
Group work	20%
Problem solving	10%
online questionnaires	20%

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Period of validity for partial qualifications:

The partial evaluations correspond to a continuous evaluation, and will be maintained until the first official call.

Clarifications:

The University of Córdoba has regulations into force regarding fraud, cheating and plagiarism. Students who have committed serious fraud may even fail the subject. It is therefore important that students follow all these academic rules, including those related to repeated absence to the lessons or any alteration of the Basic Rules of Coexistence recognized in the Coexistence Regulations of the University of Córdoba (BOUCO, July 1, 2016).

The partial evaluations correspond to a continuous evaluation, and will be maintained until the first official call. For the second and subsequent calls, there will be a written exam where questions will be asked on all the subject matter explained. To pass this exam, it will be necessary to obtain at least 5 points out of 10.

Clarifications:

BIBLIOGRAPHY

1. Basic Bibliography

Pérez López, C. (2003). Estadística. Ed. Prentice-Hall.

Amón, J. (1997). Estadística para psicólogos, Tomo I. Madrid: Pirámide.

2. Further reading

Spiegel, M.R. (1991) Estadística. 2 Ed, McGraw-Hill.

Martín Pliego, F.J and Ruiz-Maya, L. (1995(- Estadística II: Inferencia. Ed. AC.

Cuadras, C.M. (1991). Métodos de análisis multivariante. P.P.U.

Jamovi. User guide. <https://www.jamovi.org/user-manual.html>

The methodological strategies and the evaluation system contemplated in this Course Description will be adapted according to the needs presented by students with disabilities and special educational needs in the cases that are required.