

## **5004 – Research Methods II - Probability, Inference, Regression**

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### Competences

#### **BASIC COMPETENCES**

- To possess and understand the knowledge that provides a basis or opportunity to be original in the development and/or application of ideas, usually in a research context.
- That students know how to apply the knowledge they acquire, and have the capacity to solve problems in new or little-known (multidisciplinary) environments beyond their area of study.
- That students are capable of integrating knowledge and tackle the complexity of formulating judgments from incomplete information that include reasoning about social and ethical responsibility related to the application of their knowledge.
- That students know how to communicate to specialists and non-specialists in a clear and unambiguous manner their conclusions, and the knowledge and reasoning, which support them.

#### **GENERAL COMPETENCES**

- Discuss about international policies critically based on the available empirical evidence and current theoretical debates.
- Demonstrate organizational and planning capacity to study complex issues, developing self-learning formulas.
- Demonstrate personal initiative and the ability to lead and adapt to new challenges.
- Articulate the knowledge and tools necessary to test research hypotheses.
- Analyse and promote other cultures, customs and ways of thinking.

## **TRANSVERSAL COMPETENCES**

- Demonstrate the ability to work in an international context, with recognition and appreciation of diversity and multiculturalism.
- Demonstrate the ability to work in a team and in coordination to develop a specific task, actively participating in team discussions and reflection and promoting interaction within the team.

## **COMPETENCIAS ESPECÍFICAS**

- Identify the main sources of bibliographic information on issues related to international development studies, including specialised periodicals and primary source collections.
- Identify the main authors, approaches and ideas in the study of the development process, as well as its debates and explanatory limits.
- Analyze the results obtained in accordance with the standards of the scientific method and identify the techniques and instruments of quantitative and qualitative analysis most appropriate to each case or problem.

## **Learning outcomes**

- Design and develop specialised databases for research on issues related to international studies.
- Apply various social science research methodologies to the study of the problems and dynamics of international level.
- Use social analysis techniques to evaluate public policies with a strong international dimension.
- Interpret and describe the results of statistical analysis.
- Master the statistical software required to implement the techniques studied in the course.

## Teaching activities

Type of activity
Master classes
Seminars
Tutorials
Individual work
Group work
Self-study
Workshops