

Curso Académico 2015-16
METHODS IN EDUCATIONAL RESEARCH
Ficha Docente

Nombre de asignatura (Código GeA): MÉTODOS DE INVESTIGACIÓN EDUCATIVA (800427)

Titulación: GRADO EN PRIMARIA

Plan: GRADO EN MAESTRO EN EDUCACIÓN PRIMARIA

Curso: 1

Carácter: CORE

Duración/es: First semester

Idioma/s en que se imparte: English

SYNOPSIS

SHORT DESCRIPTION:

Statistics: Introduction to Research Methodology and Observation in Social Sciences. Data collection and analysis techniques.

AIMS:

Handle, analyze and interpret statistical information as a useful tool in order to develop practice and educational theory.

CONTENT:

Introduction to statistics: concepts, functions, applications in Social Sciences.

Types of variables and data characteristics.

Basic descriptive analysis for the study of social and educational phenomena (frequency distributions, graphics, measures of central tendency and dispersion, correlation).

Reading, interpretation and evaluation of descriptive result reports of social and educational reality.

Basics of statistical inference logic applied to educational research: Problem and hypothesis. Population and sample. Parameters and statistics. Sampling distribution. Statistical decision theory.

Reading, interpretation and evaluation of social and educational inquiry reports.

FURTHER INFORMATION:

ASSESSMENT:

The final grade is based on continuous assessment of the subject, with a weight of 50% of the grade, including the delivery of works, guided practice and attendance at practice sessions, giving each part the weight the teacher considers appropriate. The other 50% of the grade consists of a written test. It is requisite to pass both parts.

BASIC BIBLIOGRAPHY:

BABBIE, E. R. (1999) *The basics of Social Research*. Belmont, CA: Wadsworth Publishing Company.

Cohen, L., Manion, L., Morrison, K. (2007). *Research Methods in Education*. London New York : Routledge cop.

Donnelly, R. A. Jr. (2007) *The Complete Idiot's Guide to Statistics*. New York, NY : Alpha.

Escobar, M. (1999). *Análisis Gráfico/Exploratorio*. Madrid: La Muralla.

Gambara, H. (2007). *Métodos de Investigación en Psicología y Educación. Libro de Prácticas*. (4ªed.). Madrid: McGraw-Hill.

Gliner, J.A., Morgan, G. A. & Leech, N. L. (2010). *Research methods in applied settings*. New York: Psychology Press-Routledge.

Jaisingh. L. R. (2000) *Statistics for the Utterly Confused*, 2nd edition (Utterly Confused Series). New York: McGraw-Hill.

León, O.G. y Montero, I. (2007). *Métodos de Investigación en Psicología y Educación*. (4ª ed.). Madrid: McGraw-Hill.

Lomax, R. C. (2010). *An introduction to statistical concepts*. New York: Psychology Press-Routledge.

Mafokozi, J. (2009). *Introducción a la Estadística para gente de letras*. Madrid: CCS.

McMillan, J.H. y Schumacher, S. (2005). *Investigación educativa*. Madrid: Pearson Educación.

Moore, D.S. (2000). *Estadística aplicada básica*. Barcelona: Antoni Bosch, editor, S.A.

Myers, J. L. & Well, A. D. (2010). *Research design and statistical analysis*. New York: Psychology Press-Routledge.

Peña, D. y Roma, R. (1997). *Introducción a la estadística para las Ciencias Sociales*. Madrid: McGraw Hill.

Pérez, C. (2007). *Estadística aplicada a través de Excel*. Madrid: Pearson-Prentice Hall.

Urdan, T. C. (2010) *Statistics in plain English*. New York: Psychology Press-Routledge.

Weiss, N. A. (2008). *Introductory Statistics* (8th ed). San Francisco: Pearson, Addison-Wesley.

Williams, F. (2001) Reasoning with statistics. Boston, MA. Wadsworth. 5th ed

COMPETENCIES

Specific:

Set up and analyze quantitative data bases to describe social and educational phenomena.

Interpret numerical reports on the social and educational context.

Organize information and prepare reports according to the objectives and type of audience they target.

Apply the logic of statistical inference to solving educational problems.

Comprehendingly read, interpret and evaluate one-fold social and educational research reports.

COMPETENCIES

General:

CM 8. 1. Learn and apply techniques for collecting information through observation or other strategies in order to improve practice, encouraging innovation.

CM 8.2. Understand and apply basic statistical methods and techniques of social research and be able to design innovative projects identifying evaluation indicators.

CM 8.3. Know how to analyze collected data, critically understand the social and educational context and prepare a report of findings.

COMPETENCIES

Transversal:

Organize and interpret information drawing upon rigorous criteria.
Develop intellectual curiosity and commitment to improving practice and increasing knowledge in pedagogy.
Use and understand the technical language of educational research.

TEACHING ACTIVITIES

Practical classes: 20% aprox.

Lectures: Approximately 30% of the total credits, considering only the classroom activities.