QUANTITATIVE METHODS IN ECONOMICS AND MANAGEMENT II

- **Course code**
  8165
- **Type of course (compulsory, optional)**
  Compulsory
- **Level of course** (e.g. first, second or third cycle; sub-level if applicable)
  N/A
- **Year of study**
  2013-2014
- **Semester**
  3rd semester
- **Number of credits allocated**
  6 ECTS Credits
- **Name of lecturer**
  Nikolaos Demiris, Lecturer
- **Learning outcomes**
  The objective of this course is to introduce the students to the basic principles of statistical inference and modelling in order to be able to use them in problems of management science. A part of the course will be concerned with an introduction to the essential concepts of statistics so that the students may subsequently be taught and understand regression methodology, which is widely used in economics and management.
- **Mode of delivery (face-to-face, distance learning)**
  Face-to face teaching, tutorials, software lab sessions .
  Prerequisites and co-requisites
  N/A
- **Recommended optional programme components**
  Software lab sessions
- **Course contents**
  - Statistical estimation: Least Squares, maximum likelihood estimation, Bayesian inference
  - Hypothesis testing: basic concepts and examples
  - Simple linear regression. Applications of the simple linear modelling problems from economics and management science
  - Analysis of variance: basic principles and applications via software.

- Multiple linear regression: estimation, multicollinearity issues, applications with statistical software

- **Recommended or required reading**

  📖 Χαλικιάς, Στατιστική: Μέθοδοι ανάλυσης για επιχειρηματικές αποφάσεις.

  📖 Course notes and web material by the course lecturer

- **Planned learning activities and teaching methods**

  Teaching includes lectures and tutorial lessons.

- **Assessment methods assessment methods and criteria**

  Final written exam (100%)

- **Language of instruction**

  Greek

- **Work placement(s)**

  N/A