Course title	Research Methods and Data Analysis
Course code	
Type of course	Compulsory
Level of course	Postgraduate
Year of study	First (1st)
Semester	Second (2nd)
ECTS credits	
Name of lecturer(s)	Assistant Professor Georgios Androulakis,
Aim of the course	The aim of this course is to present a series of modern quantitative techniques with which managers may formulate problems, analyze data and reach conclusions in order to make better decisions. These techniques include Non Parametric Statistics, Non Linear Regression and Principal Components Analysis for addressing realistic problems, defining scenarios and making better decisions.
Learning outcomes	At the end of this course the student should be able to: 1. Formulate statistical models 2. Handle linear/nonlinear regression 3. Analyze data with Principal Components Analysis.
Competences	At the end of the course the student will have further developed the following skills/competences: 1. Evaluate Statistical models 2. Reporting and presenting the results.
Prerequisites	There are no prerequisite courses. It is, however, recommended that students have at least a basic knowledge of Differential and Integral Calculus.
Course contents	1. Analysis of variance 2. Linear/nonlinear regression 3. Statistical Models 4. Principal Components Analysis
Recommended reading	1. "Quantitative Methods for Business Decisions", Jon Curwin and Roger Slater, International Thomson Business Press, 2007

	2. "Essential Quantitative Methods for Business, Management and Finance", L. Oakshott, Palgrave Macmillan, 2012 3. "Quantitative Methods for Business & Management", F. Dewhurst, Mc Graw Hill, 2006 4. "Quantitative Methods for Decision Makers", M. Wisniewski, Prentice Hall, 2010
Teaching and learning methods	Lectures – Tutorials – Laboratory sessions
Assessment and grading methods	The grade is calculated based on written exams and assignment given throughout the course. Greek grading scale: 1 to 10. Minimum passing grade: 5
Language of instruction	Greek.