Course Title	Advanced Quantitative Research Methods			
Course Code	RES700			
Course Type	Compulsory			
Level	Ph.D. (3 <sup>rd</sup> Cycle)			
Year / Semester	1 <sup>st</sup> Year / 1 <sup>st</sup> Semester			
Teacher's Name	ТВА			
ECTS	10Lectures / week3 Hours / 14 weeksLaboratories / weekNone			
Course Purpose and Objectives	The aim of the course is to study the philosophical content of quantitative research. Also, get acquainted with advanced quantitative approaches to business related issues through the different forms and methods of research. At the same time, the course aims to make it possible for PhD students to set up research questions that require a quantitative approach, produce / collect the data they deem appropriate at any time, organize them and analyze them as much as possible using appropriate statistical analysis software packages (SPSS, STATA, AMOS). In the same way, the course aims to enable them to exploit research data, analyze them, interpret them and write their study in academic language and with sufficient scientific evidence. Finally, the course aims at developing the critical ability of PhD students to interpret and evaluate quantitative research work from the field of business related research.			
Learning Outcomes	<ol> <li>Upon successful completion of this course students should be able to:         <ol> <li>Critically analyse the theoretical and epistemological principles on which quantitative business related research is based, its role, its relationship and its differences with qualitative research approaches.</li> <li>Evaluate and compare the characteristics of the various research examples and know/ identify the philosophy that each of them is based on.</li> <li>Prepare research projects by selecting appropriate quantitative processes and approaches according to their research objectives and research questions.</li> <li>Collect quantitative data using appropriate techniques and use statistical analysis packages to record, manipulate and analyse data by applying advanced statistical research methods</li> </ol> </li> </ol>			

	<ol> <li>5. Analyse, evalua to the applicatio research.</li> <li>6. To become critic</li> </ol>	te and discuss dilemin of quantitative appro cal readers of busines	mas on key issues related baches to business related as related research.
Prerequisites	None	Co-requisites	None
Course Content	<ol> <li>The nature epistemological, relation to differ</li> <li>Quantitative buits differences approaches.</li> <li>Historical review</li> <li>Validity, reliability</li> <li>Development of</li> <li>Design of the quits</li> <li>Case tests for a two samples and two samples a</li></ol>	of quantitative re- evaluative and meth ent schools of though siness related research with qualitative but of quantitative research quantitative research restionnaire ns and appropriate n cal data verage, percentage, a d confidence intervals parametric control co ample size. (SPSS, S statistical checks. (SI ysis: Correlation coef alysis: simple, mult ince analysis (ANO' ti-factorial variance ar principal component d scaling, clusterin esis about populatio J-test Goodness of fit rocedures. (SPSS, S' ares. (SPSS, STATA) tion modelling: Overvie ation modelling: Tes pation modelling: Tes pation modelling: Tes	esearch - ontological, odological assumptions in ts. ch: its role, its relation and isiness related research arch quantitative research questions nethods for collecting and and dispersion for one and s (SPSS, STATA) nditions, statistical power, STATA) PSS, STATA) ficients. (SPSS, STATA) iple, curvilinear, logistic. VA), covariance analysis nalysis (MANOVA) (SPSS, analysis (MANOVA) (SPSS, analysis. (SPSS, STATA) g, discriminant analysis n means (t and F-tests) and contingency table chi- TATA) ) analysis of latent class ew and Confirmatory factor sting structural equation

Teaching Methodology	Face-to-Face	
Bibliography	Hair, J. F, Babin, B. J., Anderson, R.E., and Black, W.C., Multivariate Data Analysis. Cengage, U.K	
	Laura M. O'Dwyer, James A. Bernauer, Quantitative Research for the Qualitative Researcher. Sage Publication.	
	Schumacker, R. E., & Lomax, R. G. <i>A Beginner's Guide to Structural Equation Modeling</i> . U.K.: Routledge	
	Keith McCormick, Jesus Salcedo, Jon Peck (With), Andrew Wheeler (With), Jason Verlen, SPSS Statistics for Data Analysis and Visualization. Wiley	
	Ulrich Kohler and Frauke Kreuter. Data Analysis Using Stata, Third Edition. STATA Publication	
	Barbara M. Byrne. Structural Equation Modeling With AMOS: Basic Concepts, Applications, and Programming, Third Edition (Multivariate Applications Series), Kindle Edition.	
Assessment	Examinations60%Assignments30%Class Participation and Attendance10%100%100%	
Language	English	