

COURSE OUTLINE

1. GENERAL

SCHOOL:	SOCIAL SCIENCES		
DEPARTMENT:	PSYCHOLOGY		
LEVEL:	<i>Undergraduate</i>		
COURSE CODE:	PSY-2201	SEMESTER	3 rd
COURSE TITLE:	Statistics II		
COURSE ISNTRUCTOR:	Zampetakis Leonidas Assistant Professor in Industrial – Organizational Psychology		
TEACHING ACTIVITIES		WEEKLY HOURS	ECTS
Lectures and laboratory exercises		3	6
COURSE TYPE:	General background (Compulsory)		
PREREQUISITE COURSES:	Statistics I (PSY1202) Research Methods I (PSY1201)		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek		
IS THE COURSE OFFERED TO ERASMUS STUDENTS?	Yes (independent study of English literature, 1 assignment, and term paper)		
COURSE WEBSITE (URL):	https://elearn.uoc.gr/course/view.php?id=2436		

2. LEARNING OUTCOMES

Learning Objectives

This course is designed to enhance the student's basic knowledge and understanding of the statistical method as it pertains to hypothesis testing. During the course, students become familiar with many of the concepts needed to understand, conduct, and interpret common statistical procedures and techniques. The emphasis of this course is on the acquisition of conceptual, rather than procedural, knowledge that can be demonstrated by selecting, applying and interpreting appropriate statistical procedures.

At the end of the course, the students should be able to:

- expose the student to advanced statistical techniques,
- develop the skills necessary to identify an appropriate technique, estimate models, and interpret results for independent research make the student proficient in the use of the commonest statistical techniques used in social sciences,
- give the student exposure to different analytic strategies and philosophies and to critically evaluate contemporary social research using advanced quantitative method.
- give the student the expertise to “think” about appropriate statistical techniques for the problems they will face in-and-out of the academic settings, and become familiar with

the basic SPSS commands, and know how to interpret its outputs
General Competences
<ul style="list-style-type: none"> • Search for, analysis and synthesis of data and information, with the use of the necessary technology • Decision making • Working independently • Production of free, creative and inductive thinking.

SYLLABUS

<ul style="list-style-type: none"> • Lecture 1: Revision: Hypothesis Testing • Lecture 2: Non-parametric tests • Lecture 3: Mean Differences – t-test (one- and two-samples) • Lecture 4: Introduction to Analysis of Variance • Lecture 5: One-way Analysis of Variance (One-way ANOVA) • Lecture 6: Midterm Exam I • Lecture 7: Factorial ANOVA (Part I) • Lecture 8: Factorial ANOVA (Part II) • Lecture 9: Regression (Simple and Multiple) • Lecture 10: Exploratory Factor Analysis (EFA) • Lecture 11: Midterm Exam II • Lecture 12: Confirmatory Factor Analysis (CFA) • Lecture 13: Introduction to Path Analysis and SEM

3. TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Face to face																								
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY	<p>Use of Information and Communication Technologies (ICT) in teaching</p> <p>Use of e-class for the support of teaching and the achievement of learning outcomes, and for communicating with students.</p>																								
TEACHING ORGANIZATION	<table border="1"> <thead> <tr> <th>Activity</th> <th>Semester workload</th> <th>ECTS Credits</th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td>39 hours</td> <td>1,56</td> </tr> <tr> <td>Evaluative exercise no. 1</td> <td>20 hours</td> <td>0,80</td> </tr> <tr> <td>Evaluative exercise no. 2</td> <td>20 hour)</td> <td>0,80</td> </tr> <tr> <td>Individual assignment</td> <td>10 hours</td> <td>0,40</td> </tr> <tr> <td>Independent study</td> <td>60 hours</td> <td>2,40</td> </tr> <tr> <td>Final exams</td> <td>3 hours</td> <td>0,12</td> </tr> <tr> <td>Total</td> <td>152 hours</td> <td>6,08</td> </tr> </tbody> </table>	Activity	Semester workload	ECTS Credits	Lectures	39 hours	1,56	Evaluative exercise no. 1	20 hours	0,80	Evaluative exercise no. 2	20 hour)	0,80	Individual assignment	10 hours	0,40	Independent study	60 hours	2,40	Final exams	3 hours	0,12	Total	152 hours	6,08
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STUDENT PERFORMANCE EVALUATION	<p>I. Final exams (60%) II. Two evaluative tests (30%: 15%, 15%) III. Individual assignment (10%)</p> <p>Language of evaluation: Greek. For Erasmus exchange students' language of evaluation will be English.</p>
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4. Bibliography

<ul style="list-style-type: none"> • Roussos, P. & Tsaousis, I. (2011). Statistics in Behavioral Sciences with the use of SPSS. Athens: Topos. • Katsis, A., Sideridis, G., & Emvalotis, A. (2011). Statistical Methods in Social Sciences. Athens: Topos. • Robbins, S.P., & Judge, T.A. (2017). Organizational Behavior-17th Edition: Pearson, N.Y.
