COURSE OUTLINE

1. GENERAL

FACULTY	SOCIAL SCIENCES		
DEPARTMENT	PSYCHOLOGY		
LEVEL OF STUDY	*Undergraduate*		
COURSE CODE	**Ψ4612**	**SEMESTER OF STUDY**	F (6th)
COURSE TITLE	**Research and experimental methods to study substance use behaviors.**		
COURSE MANAGER	**Panagiotis Spanakis**		
SCIENTIFIC SPECIALIZATION	**Special Teaching Staff (Addiction Psychology)**		
INDEPENDENT TEACHING ACTIVITIES		**WEEKLY TEACHING HOURS**	**CREDITS**
Lectures, Laboratory Exercises, Practical Training in Experimental Techniques		**3**	**6**
COURSE TYPE	Skills Development		
PREREQUISITES COURSES:	Research Methodology in Social Sciences I		
LANGUAGE OF INSTRUCTION AND EXAMINATIONS:	Greek		
THE COURSE IS OFFERED IN ERASMUS STUDENTS	No		
COURSE WEBSITE (URL)	https://elearn.uoc.gr/course/view.php?id=3583		

2. LEARNING OUTCOMES

Learning Outcomes
The Laboratory focuses on a) the cognitive-motivational basis of substance use behaviours and b) advanced methods and statistics to conduct a cognitive-experimental study to understand substance use behaviour (e.g. smoking, alcohol use). *After the completion of the Laboratory and with independent study, it is expected that students will be able to:* *- Understand the cognitive-motivational nature of substance use behaviours and know the basic experimental paradigms to measure these phenomena.* *- Be familiar with Ecological Momentary Assessment and collecting simple real-world data.* *- Analyze quantitative data with regression analysis* *- Be able to create a basic cognitive experiment with OpenSesame.*
General Competencies

- Search, analyze and synthesize data and information, using the necessary technologies
- Data analysis
- Autonomous work
- Teamwork
- Generation of research ideas
- Design and management of experimental projects
- Promoting free, creative and inductive thinking

3. COURSE CONTENT

1. Introduction
2. Cognitive underpinning of addiction (Implicit Cognitions)
3. Cognitive tasks to measure automatic and implicit attention towards substance-use related cues (e.g. Addiction Stroop Task and Visual Proble Task).
4. Cognitive tasks to measure automatic and implicit approach towards substance-use related cues (e.g. Automatic Approach Task) and implicit memories (Implicit Associations Task).
5. Setting up a cognitive task to explore substance use behaviours
6. Building a cognitive tasks with OpenSesame
7. Ecological Momentary Assessment for real-world measures outside the laboraty
8. Logistic Regression statistical analysis
9. Brief introduction to the concept of multilevel data
10. Preparation for the presentation session

4. TEACHING AND LEARNING METHODS - ASSESSMENT

DELIVERY METHOD	In person		
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES	Use of ICT in teaching. Support of the learning process through the electronic platform e-learn.		
TEACHING ORGANIZATION	***Activity***	***Semester Workload***	***ECTS credits***
	Lectures	36	1,44

	Preparation of research exercise and individual study	45	1,80
	Conductin g a research exercise	45	1,80
	Analysis data and Final presentation	30	1,20
	Total Course	***156***	***6,24***
STUDENT EVALUATION	The evaluation is in Greek - Participation and completion of laboratory exercises (30%) - Extended Abstract in scientific conference standards (40%) - Presentation of a research proposal according to the standards of a scientific conference (30%)		

5. RECOMMENDED-BIBLIOGRAPHY

Ενδεικτικά

Cox, W. M., Fadardi, J. S., & Pothos, E. M. (2006). The addiction-stroop test: Theoretical considerations and procedural recommendations. Psychological bulletin, 132(3), 443-476. doi:10.1037/0033-2909.132.3.443

Field, M., & Cox, W. M. (2008). Attentional bias in addictive behaviors: a review of its development, causes, and consequences. Drug and alcohol dependence, 97(1), 1-20. doi:10.1016/j.drugalcdep.2008.03.030

Shiffman, S. (2009). Ecological momentary assessment (EMA) in studies of substance use. Psychological Assessment, 21(4), 486-497. doi:10.1037/a0017074