COURSE OUTLINE

(1) GENERAL

SCHOOL	School of Information Sciences and Technology
ACADEMIC UNIT	Department of Statistics
LEVEL OF STUDIES	Undergraduate – 1st cycle

COURSE CODE	**6117**	**SEMESTER**	**8th**

COURSE TITLE	**RESEARCH METHODOLOGY**

INDEPENDENT TEACHING ACTIVITIES	**WEEKLY TEACHING HOURS**	**CREDITS**
	4	7

COURSE TYPE	Elective - Skills Development
PREREQUISITE COURSES:	No
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek
IS THE COURSE OFFERED TO ERASMUS STUDENTS	No
COURSE WEBSITE (URL)	https://www.dept.aueb.gr/en/stat/content/research-methodology-7-ects

(2) LEARNING OUTCOMES

Learning outcomes
Upon completion of the course students will be able to: • To search, read scientific announcements and separate the different parts of which each one consists • To be able to identify problematic points in studies as well as ethical issues • To understand the necessity of using different tools to measure variables of interest and, where necessary, to be able to obtain information regarding their reliability and validity • To be able to formulate the different stages in designing a research and all its individual characteristics
General Competences
• Search, analysis and synthesis of data and information, using the necessary technologies • Adaptation to new situations • Decision-making • Working independently • Teamwork

- Working in an international environment
- Working in an interdisciplinary environment
- Production of new research ideas
- Project planning and management
- Respect for difference and multiculturalism
- Showing social, professional and ethical responsibility and sensitivity to gender issues
- Production of free, creative and inductive thinking

(3) SYLLABUS

The research process. Research-Research Methodology-Research Methods. The research question. The concepts and their measurement - Operational definition. Reading and evaluation of literature. Sources of existing information (secondary data). Methods of sample collection, Measurement tools, Types of scales, Indicators of validity and reliability, Tool for creating an electronic questionnaire, Practices for organizing the questionnaire. Writing a written report using academic writing formatting criteria. Use of appropriate software to detect content-plagiarism similarity (Turnitin) of the written report. Use of appropriate software for the presentation of research results.

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Face to Face
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY	In teaching: Search engines, Google Forms, Excel, Statistical package, Powerpoint In communication with students: Feedback to students through the process of submitting-checking material at different stages of conducting their empirical research through the "Ergasia" tool (eclass). Checking similarity for plagiarism through the Turnitin tool (office 365-aueb) E-mail Use of group chat in Microsoft Teams

TEACHING METHODS	Activity	Semester workload
	Classroom lectures	52
	Seminars	4
	Laboratory Exercise	12
	Study and analysis of literature	27
	Writing of assignments	30
	Course total	175

STUDENT PERFORMANCE EVALUATION	
	Written exam at the end of the semester. Project. Presentation
	Information available at: eclass, Department Website

(5) ATTACHED BIBLIOGRAPHY

- Veal A.J., Χρήστου Ε. (2022). Ερευνητικές Μεθοδολογίες στις Κοινωνικές Επιστήμες.BROKEN HILL PUBLISHERS LTD
- Καλογεράκη Στ. (2020). Σχεδιασμός και κατασκευή ερωτηματολογίων στην κοινωνική έρευνα. Κριτική
- Δαρβίρη Χρ. (2009). Μεθοδολογία Έρευνας στο Χώρο της Υγείας. ΙΑΤΡΙΚΕΣ ΕΚΔΟΣΕΙΣ Π. Χ. ΠΑΣΧΑΛΙΔΗΣ
- Gall, M., Borg, W & Gall, J. (2013). Εκπαιδευτική Έρευνα-Βασικές Αρχές, BROKEN HILL PUBLISHERS LTD
- Σταλίκας, Α. Κυριάζος, Θ. (2019.) Μεθοδολογία έρευνας και Στατιστική Με τη χρήση R.ΜΟΤΙΒΟ ΕΚΔΟΤΙΚΗ Α.Ε.
- Creswell J. D, Creswell W J. (2019). Σχεδιασμός Έρευνας. ΠΡΟΠΟΜΠΟΣ
- Gay R.L, Mills E.G, Airasian, P. (2017). Εκπαιδευτική Έρευνα. ΠΡΟΠΟΜΠΟΣ
- Schindler S. P .(Συγγρ.) - Αποστολάκης Αλ., Κουργιαντάκης Μ. (Επιμ.).(2019). Μέθοδοι έρευνας για τις επιχειρήσεις. Εκδόσεις Κριτική Α.Ε.
- Gray D. (Συγγρ.)- Χατζόγλου, Πρ., Δελιάς Π (Επιμ.) (2018). Η ερευνητική μεθοδολογία στον πραγματικό κόσμο. Εκδόσεις Α. ΤΖΙΟΛΑ & ΥΙΟΙ Α.Ε.
- Beatty, P. C., Collins, D., Kaye, L., Padilla, J. L., Willis, G. B., & Wilmot, A. (Eds.). (2019). Advances in questionnaire design, development, evaluation and testing. John Wiley & Sons. [electronic resource] https://onlinelibrary.wiley.com/doi/book/10.1002/9781119263685
- Kenett, R., & Salini, S. (2012). Modern Analysis of Customer Surveys. Jhon Wiley and Sons. [electronic resource] https://onlinelibrary.wiley.com/doi/book/10.1002/9781119961154
- Biemer, P. P., Groves, R. M., Lyberg, L. E., Mathiowetz, N. A., & Sudman, S. (Eds.). (2013). Measurement errors in surveys (Vol. 548). John Wiley & Sons. [electronic resource] https://onlinelibrary.wiley.com/doi/book/10.1002/9781118150382