COURSE DESCRIPTION

Course Title	Research Methodology
Course Code	DLADE206
Type of course	Compulsory
Level	Master
Year / Semester of study	1st year / 1st semester
Teacher's name	Dr Nansia Kyriacou

ECTS	10	Lectures / per week		Workshops / per week	

Course Objectives	The specific Research Methodology course, placed in the first semester, is mandatory and has an important role in the program since it prepares the trainees for the planning of their postgraduate thesis. Its goal is the understanding of basic methods of planning, conducting and critical analysing of research and of educational research. It is expected that the students will be able, after the end of the course: • to criticize research studies in terms of the methodology design that has been chosen, • formulate research questions, • relate elements/fields/parts of the literature review, • develop research by choosing the appropriate methodology design, • collect data by choosing the appropriate tool, • analyze data they will collect and • record in a scientifically appropriate manner their conclusions and their overall scientific investigation.
Learning Outcomes	After the end of the course, they should be able to: **At a knowledge level** • To recognize indicators of descriptive and inductive statistical analysis and the selection criteria of each type of analysis based on the measurement scales used (mean, median, prevalence, frequency, percentages, data tabulation, correlation coefficient, comparison of means, factor analysis, regression analysis) • To formulate research questions or research hypotheses. • To structure the information, they collect from the literature review into a scientific text. • To evaluate the limitations of a research and the way of formulating

them in a scientific text.
- To analyze the purpose of the research.
- To distinguish the main philosophical directions of research and their effects.

In terms of skills

- To choose the appropriate sample for their research.
- To structure a complete scientific text following the APA style.
- To choose the appropriate techniques for analysing their data.
- To calculate the sampling error in the case of quantitative research.
- To choose the appropriate scientific sources in the context of the bibliographic review.
- To present research at the level of a scientific conference.
- To develop research considering ethical issues on the part of the researcher.
- To choose the appropriate data collection tool considering its characteristics and limitations (emphasis on questionnaire, interview, observation).

In terms of competencies

- To justify the role and importance of research in the field of adult education.
- To respond with a positive attitude and flexibility to the practical problems that arise during the implementation of the design of research.
- Participate in discussions about the most appropriate choice of methodological design according to the purpose of a research.
- Collaborate to co-create research tools.
- Criticize methodological research designs in proposed research.
- To motivate researchers in the field they are particularly interested in to engage in possible future research avenues.

Prerequisites	/	Co-requests	/

Course Content	The content of the course includes:
	Thematic Unit A - Introduction to research methodology:

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- Educational research, importance, and necessity
- Quantitative, qualitative, mixed research
- Stages of conducting research
- Research purpose, research objectives, research questions, research hypotheses
- Types of variables and types of measurement scales
- Literature review
- APA style

Thematic Unit B - Data collection:
- Selection of research tools
- Validity and reliability issues

	- Selection of population and type of sampling - Moral and ethical issues Thematic section C – data analysis: - Qualitative data analysis - Quantitative data analysis - Record and interpret results, conclusions, limitations, and extensions of a research. Thematic section D – research presentation: - Presentation of research at scientific conferences and workshops. - Writing a scientific text - APA style
Teaching Methodology	The course is taught entirely online through the Moodle platform. Videoconferencing, participation in online discussion groups, text study, assignments.
Literature	The course will use a variety of Greek and English-language bibliographical sources such as books, articles, websites, videos and tutorials. For more information see the detailed study guide of the course.
Evaluation	- Weekly Educational Activities (10 %) - Assignment 1(10 %) - Assignment 2 (30 %) - Final Exam (50 %)
Language	English / Greek