

Course Title	<b>RESEARCH METHODS</b>		
Course Code	DLMCHC112		
Course Type	Compulsory		
Level	MSc (Level 2)		
Year / Semester	1 <sup>st</sup> /1 Semester		
Teacher's Name	Prof Despina Sapountzi - Krepia / Dr Agathi Argyriadi/ Dr Panagiotis Paoullis		
ECTS	5	Lectures / week	Laboratories / week
Course Purpose and Objectives	The aim of the course is to provide postgraduate students with the main aspects of research methodology and to prepare them for the implementation of scientific research.		
Learning Outcomes	<p>By the end of the course, the students should be able to:</p> <ol style="list-style-type: none"> <li>1. Explain concepts, principles and methods of the scientific process and research.</li> <li>2. Identify the control procedures in research and formulate a research proposal.</li> <li>3. Use appropriate skills in measurement and writing a research problem, formulating research questions and hypotheses.</li> <li>4. Describe the different types of research and its phases.</li> <li>5. Identify types of variables and methods of observation.</li> <li>6. Understand and analyze the function of measurement scales and the concepts of reliability and validity in quantitative research.</li> <li>7. Understand and analyze the methodology of qualitative research and the ethical issues involved in the research process, and the rules that govern it.</li> <li>8. Design a sampling methods.</li> <li>9. Organize and conduct literature search, writing scientific essays and discuss research results.</li> <li>10. Evaluate and discuss research data.</li> </ol>		
Prerequisites	NONE	Required	NONE
Course Content	<p>Introduction to scientific research.</p> <p>Sources of knowledge.</p> <p>The scientific method and the production of new knowledge.</p> <p>Generalization and induction.</p> <p>Hypotheses.</p> <p>Variables.</p> <p>Theoretical Backgrounds.</p> <p>Controlled observation, verification, dependence theory and</p>		

	<p>observation, the validity of induction.</p> <p>The research proposal - the research protocol.</p> <p>Overview of the research process, the conceptual phase, the design and planning phase, the empirical phase, the analytical phase, the phase of dissemination.</p> <p>The review of the literature.</p> <p>Quantitative and Qualitative research methodology.</p> <p>Ethical and deontological issues in research.</p> <p>Population and sample.</p> <p>Tool development and weighting.</p> <p>Methods of data collection in quantitative and qualitative research.</p> <p>Quantitative data analysis and presentation of research results.</p> <p>Qualitative research analysis and presentation of research results.</p> <p>Literature review of evidence-based practice.</p> <p>Application of Research in Health Sciences.</p>
<p>Teaching Methodology</p>	<p>Teaching includes lectures on the theoretical background via digital presentations and teaching material rich in images and short animations for better understanding key concepts. It is also includes relevant material published in international journals to follow latest developments related to the subject matter of the course.</p>
<p>Bibliography</p>	<p><b>Textbooks:</b></p> <ul style="list-style-type: none"> <li>• Hitchcock, J. H., &amp; Onwuegbuzie, A. J. (Eds.). (2022). <i>The Routledge Handbook for Advancing Integration in Mixed Methods Research</i>. Taylor &amp; Francis.</li> <li>• Macdonald, S., Headlam, N., &amp; Centre for Local Economic Strategies. (2019).(Greek Translation). <i>Research methods handbook: Introductory guide to research methods for social research</i>. Manchester: Centre for Local Economic Strategies..Publisher Beta medical publications.Athens</li> <li>• Thomas, J. R., Martin, P., Etnier, J., &amp; Silverman, S. J. (2022). <i>Research methods in physical activity</i>. Human kinetics.</li> </ul> <p><b>References:</b></p> <ul style="list-style-type: none"> <li>• Hendren, K., Newcomer, K., Pandey, S. K., Smith, M., &amp; Sumner, N. (2022). How qualitative research methods can be leveraged to strengthen mixed methods research in public policy and public administration. <i>Public Administration Review</i>.</li> <li>• Hosseinpour, S., Gaudin, A., &amp; Peters, O. A. (2022). A critical analysis of research methods and experimental models to study biocompatibility of endodontic materials. <i>International Endodontic Journal</i>, 55, 346-369.</li> <li>• Köhler, T., Smith, A., &amp; Bhakoo, V. (2022). Templates in qualitative research methods: Origins, limitations, and new directions. <i>Organizational Research Methods</i>, 25(2), 183-210.</li> </ul>

	<ul style="list-style-type: none"> <li>• Lê, J. K., &amp; Schmid, T. (2022). The practice of innovating research methods. <i>Organizational Research Methods</i>, 25(2), 308-336.</li> <li>• Miller, J., &amp; Ulrich, R. (2022). Optimizing research output: How can psychological research methods be improved?. <i>Annual Review of Psychology</i>.</li> </ul>
Assessment	<ul style="list-style-type: none"> <li>• Mid term Exam                      30%</li> <li>• Continuous Assessment 20%</li> <li>• Final Exam                              50%</li> </ul>
Language	Greek