Course Title	Master Thesis I: Passarch Methods and Thesis Preparation				
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Course Code	MED509				
Course Type	Compulsory				
Level	Masters (2 nd Level)				
Year / Semester	1 st year / Spring Semester				
Teacher's Name	Dr. Antonios Lontos, Dr. Loukas Papadakis				
ECTS	10	Lectures / week	2	Laboratories/week	-
Course Purpose	This course aims to provide students with the generic competences required to carry out graduate-level research-oriented work. By the end of this course, students will be competent in writing and presenting a successful research proposal, writing a literature review paper, critically reviewing an academic/research paper, writing a research paper for a refereed journal or conference, and writing and successfully defending a graduate-level thesis.				
Learning Outcomes	 By the end of the course, students must be able to: Elaborate the key concepts of research methodology such as research problem, research design, sampling techniques, research proposal, data collection, data analysis. Produced a structured written report on the work of a Master's level research project. Critically comment on the results of a research work and relate to other published research and scientific work. Employ a variety of tools and media to present the work of a Master's level research project. Defend orally the implementation and evaluation methodologies employed, as well as the outcomes of a Master's level research project 				
Prerequisites	None			Corequisites	None
Course Content	This course is intended to provide the theoretical and methodological foundation for completing a graduate thesis in the MSc Program. By the end of this course students will have produced a solid thesis proposal and have the necessary intellectual foundation to complete their thesis. Over the semester, students will identify and refine their thesis topic, solidify their relationship with a thesis advisor and produce a thesis proposal. Regular sessions will involve discussions of relevant readings and exploration of emergent student work. As a forum for the exchange of work in progress, the seminar will allow students to share their ideas and get feedback on the development of their thesis from their peers, visiting critics and reviewers, and faculty. In terms of this course the thesis will be introduced as a conceptual frame,				

identified by the key elements that cut across the different types of theses that might be produced by students. It will then address the following issues, among others topic and motivation, research methods, case selection, the craft of thesis production, techniques for verbally defending a thesis. The structure and the content of the final report should include the following elements: Cover & Title Page **Table of Contents** List of Figures List of Tables **Executive Summary** Introduction Literature survey Solution methodology Data collection (if any) Implementation and evaluation - Discussion and analysis Acknowledgments References: Books, papers, lecture notes, ... etc The teaching methodology of this course will be based on lecturing, Teaching demonstrating and collaborating. Methodology Lecture notes, comprising of the fundamentals of each module of the course will be prepared and presented in class on a weekly basis. The notes will introduce the major concepts and will focus on specific learning outcomes of the course. Demonstration activities including the solution of worked examples in class on a weekly basis, as well as laboratorial work will also be employed. For each fundamental concept, at least one worked example will be solved during lectures. The laboratory work will cover all major topics of the course, allowing the students to personally relate to the presented knowledge. Collaborating teaching through classroom discussion and debriefing will also be encouraged during lectures. Besides from the notes taken by students in class, all of the course material will be made available through the class website and also through the eLearning platform. The instructor will also be available to students during office hours or by appointment in order to provide any necessary tutoring. **Bibliography** 1. Gary J Burkholder, Kimberley A. Cox, Linda M. Crawford, John Hitchcock, Research Design and Methods: An Applied Guide for the Scholar-Practitioner, SAGE Publications, 2019 2. Willie Tan, Research Methods: A Practical Guide for Students and Researchers, WSPC, 2017 3. D. K. Remler, G. G. Van Ryzin, Research methods in practice:

Strategies for description and causation, SAGE Publications, 2014

Assessment	The grading will be administered, for the lecturer and the three-member committee comprising of the student's committee chair. All three faculty members must concur for a student to successfully pass this course. The students by the end of the semester should deliver the following documents letter of Intent, draft copies of the thesis preparation, oral presentation, final report of the thesis preparation, relevant project information including the log from the student-faculty meetings and MSc Thesis Proposal.			
	Assessment Weights:Adequacy of sources consulted:	20%		
	Design methodology/implementation:	20%		
	Evaluation methodology:	20%		
	Presentation and discussion:	20%		
	 Oral Presentation of thesis preparation: 20% 			
Language	English			