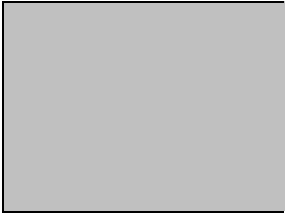


Course Title	Research skills for MSc Thesis preparation and proposal				
Course Code	MAEN507				
Course Type	Required				
Level	Master's Level				
Year / Semester	1 / 2				
Teacher's Name	Dr. Aggelos Menelaou, Dr. Antonios Baldoukas, Dr. Elena Ketteni, Dr. Maria Avtzaki				
ECTS	8	Lectures / week	3	Laboratories / week	0
Course Purpose and Objectives	<p>Students will be informed about contemporary research issues concerning Marine Engineering, on an international and local level. They will become familiar with a variety of research methods through studying examples of research projects and scientific papers. They will also have the opportunity to become familiar with the processes followed when applying for research funds, from national and international foundations as well as the specialized programmes and initiatives each of these foundations offers.</p> <p>Students will acquire experience about effective research implementation processes, methods, and results dissemination. They will be presented with opportunities for developing their own research questions and methodological designs which will lead to the elaboration of their Masters Thesis.</p>				
Learning Outcomes	<p>By the end of the course students will be able to:</p> <ul style="list-style-type: none"> • Develop specific project ideas and comment about the current research activity and methodological approaches in marine engineering and the shipping industry. • Raise research questions and be able to draw from the educational research principles in order to develop research designs and methodologies suitable for investigating marine engineering issues. • Identify the elements that highlight the quality of a research through certain research examples. • Participate in Frederick University's research activities that are related to the domain. • Identify local and international institutional bodies and foundations that support and fund research and be informed about the funding programmes and initiatives available in the area of the MSc Programme. • Understand the processes followed and acquire the skills needed for writing a research proposal, through their practical involvement in the process. • Develop their own, research questions and methodological designs which will lead finally to the elaboration of their Masters Thesis. • Implement a small scale research project related to their Masters Thesis. 				

- Understand the mechanisms they can use for the effective

	<p>communication of their research and academic results to the end users and the dissemination of the results to all interested parties, academic or not. be familiar with the basic supply and demand variables and other driving forces of the main shipping markets.</p> <ul style="list-style-type: none"> • Demonstrate knowledge on academic writing. • Demonstrate knowledge on academic presenting and ethics. 		
Prerequisites	MAEN500 pass, only for those not holding a degree in marine related fields (no background in shipping).	Required	
Course Content	<ul style="list-style-type: none"> • Learn about and become familiar with a variety of marine engineering issues related to the shipping industry. • Development of students' critical attitude towards research and research projects. • Study and presentations of relevant scientific papers and research that will contribute to students' information on current topics and methodological approaches used for investigating related issues. • Critical analysis of scientific papers and research in order to highlight elements of quality in a research project. • Students involvement in research conducted by Frederick University, so as to acquire actual experience in the field of applied research. • Development of research questions and methodological designs that apply educational research principles in the fields covered by the MSc Programme. • Information about research funding organizations and institutional bodies in Cyprus and abroad and their main funding opportunities. • Involvement in the process of writing competitive research proposals for the available funding programmes and participation in the implementation of research and results dissemination. • Preparation of their Masters Thesis proposal. This will include the required theoretical background and information (literature review), the research aim and objectives, research questions, research methods description, an implementation time schedule and suggestions for possible ways for the dissemination of the results. • Conduct of a small scale research (pilot study) in order to test the research tools that may be used for the Master's Thesis and as a means of acquiring research experience and presentation skills. • Learn about and become familiar with academic writing, presenting and ethics. 		
Teaching Methodology	<p>The Module will be offered through lectures, discussion and practical activities. Qualitative and quantitative data analysis methods will be presented to the students, presentation of scientific research and critical approaches to scientific articles concerning research methods in education for the environment and sustainable development. Students will be able to use the computer labs and will have access to statistical analysis</p>		



packages

	so as to become familiar with quantitative data processing..
Bibliography	<p>Textbooks:</p> <ul style="list-style-type: none"> • Charmaz, K (2006). Constructing Grounded Theory: A Practical Guide Through Qualitative Analysis. Thousand Oaks, CA: Sage Publications. • Cohen, L. and Manion, L. (1996). Research Methods in Education. London: Routledge. • Creswell, J.W. (2007). Qualitative Inquiry & Research Design: Choosing Among Five Approaches. Thousand Oaks, CA: Sage Publications. • Opie, C. (2005). Doing Education Research: a guide to first – time researchers.London: Sage Publications. • Powney, J. and Watts, M. (1987). Interviewing in Educational Research. Routledge and Kogan. • Radnor, H.A. (Ed.). (1994). Qualitative Interpretive Research. Collecting and Analysing Interview Data. University of Exeter, Monograph, UK..
Assessment	<p>Final Exam: 20%</p> <p>Course Work/Assignment: 80%</p>
Language	English