COURSE OUTLINE

(1) GENERAL

SCHOOL	School of Engineering			
ACADEMIC UNIT	• Department of Planning and Regional Development • Department of Civil Engineering			
LEVEL OF STUDIES	Postgraduate Program			
COURSE CODE	MCC001	SEMESTER	3rd	
COURSE TITLE	Master's Thesis Preparation			
INDEPENDENT TEACHING ACTIVITIES *if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits*			WEEKLY TEACHING HOURS	CREDITS
	Individual work			-
COURSE TYPE *general background, special background, specialised general knowledge, skills development*	Specialization course			
PREREQUISITE COURSES:	Successful completion of all courses			
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek / English			
IS THE COURSE OFFERED TO ERASMUS STUDENTS				
COURSE WEBSITE (URL)				

(2) LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.

Consult Appendix A

- *Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area*
- *Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B*
- *Guidelines for writing Learning Outcomes*

Upon successful completion of the Master's thesis, students will be able to:

a) Deepen their knowledge in a specific scientific field using the knowledge acquired during their studies.
b) Collect reliable and valid data through database searches, field measurements and surveys, and collaboration with relevant stakeholders.
c) Investigate, document, synthesize, and critically analyze scientific information using international literature.
d) Develop and apply methodologies in accordance with sound scientific practice and theory, process and analyze data, and evaluate results.
e) Write scientific texts presenting their research results critically, framing the research question, and highlighting their contribution to the scientific field.
f) Organize and publicly present their research and results within a given timeframe and defend their work during oral examination.

General Competences

Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?

Search for, analysis and synthesis of data and information, *Project planning and management*

with the use of the necessary technology	*Respect for difference and multiculturalism*
Adapting to new situations	*Respect for the natural environment*
Decision-making	*Showing social, professional and ethical responsibility and*
Working independently	*sensitivity to gender issues*
Team work	*Criticism and self-criticism*
Working in an international environment	*Production of free, creative and inductive thinking*
Working in an interdisciplinary environment	*……*
Production of new research ideas	*Others…*
	…….

- Adapting to new situations
- Searching, analyzing, and synthesizing data and information using appropriate technologies
- Decision-making
- Independent work
- Interdisciplinary collaboration
- Generating and approaching new research ideas
- Project design and management
- Promotion of free, creative, and inductive thinking
- Critical thinking and self-reflection
- Demonstration of social, professional, and ethical responsibility

(3) SYLLABUS

- Identification of the research framework and problem definition
- Extensive literature review and critical analysis
- Research methodology design
- Planning, organizing, and conducting data collection and fieldwork
- Data analysis using statistical and other scientific methods
- Evaluation of findings
- Writing the thesis
- Public presentation of the thesis

(4) TEACHING and LEARNING METHODS - EVALUATION

<table>
<tr><td>DELIVERY
Face-to-face, Distance learning, etc.</td><td>Face-to-face teaching</td></tr>
<tr><td>USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY
Use of ICT in teaching, laboratory education, communication with students</td><td>Use of the official Thesis Writing Guide
Collaboration with the thesis supervisor</td></tr>
<tr><td>TEACHING METHODS
The manner and methods of teaching are described in detail.
Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.

The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS</td><td>
<table>
<tr><th>Activity</th><th>Semester workload</th></tr>
<tr><td>Literature search and review</td><td>100</td></tr>
<tr><td>Methodology development, research planning, implementation</td><td>430</td></tr>
<tr><td>Thesis writing</td><td>200</td></tr>
<tr><td>Thesis presentation</td><td>20</td></tr>
<tr><td>Course total</td><td>750</td></tr>
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<tr><td>STUDENT PERFORMANCE EVALUATION
Description of the evaluation procedure

Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other

Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</td><td>Assessment includes:
Evaluation of the thesis content following plagiarism check
Oral presentation and defence of the thesis before a three-member committee in a public session
Language of Assessment: Greek or English
Assessment Methods: Written thesis, plagiarism control, oral presentation, public defence</td></tr>
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(5) ATTACHED BIBLIOGRAPHY

To be determined in consultation with the thesis supervisor.