

# MASTER'S THESIS

## 1. GENERAL

<b>SCHOOL</b>	SCHOOL OF ENGINEERING		
<b>DEPARTMENT</b>	CIVIL ENGINEERING		
<b>LEVEL OF STUDIES</b>	GRADUATE PROGRAM	LEVEL 7	
<b>COURSE CODE</b>		<b>SEMESTER</b>	3 <sup>rd</sup> Semester
<b>COURSE TITLE</b>	Master's Thesis		
<b>TEACHING ACTIVITIES</b> <i>If the ECTS Credits are distributed in distinct parts of the course e.g. lectures, labs etc. If the ECTS Credits are awarded to the whole course, then please indicate the teaching hours per week and the corresponding ECTS Credits.</i>		<b>TEACHING HOURS PER WEEK</b>	<b>ECTS CREDITS</b>
		0	30
<i>Please, add lines if necessary. Teaching methods and organization of the course are described in section 4.</i>			
<b>COURSE TYPE</b> <i>Background, General Knowledge, Scientific Area, Skill Development</i>	SCIENTIFIC AREA		
<b>PREREQUISITES:</b>	NONE		
<b>TEACHING &amp; EXAMINATION LANGUAGE:</b>	GREEK - ENGLISH		
<b>COURSE OFFERED TO ERASMUS STUDENTS:</b>	NO		
<b>COURSE URL:</b>			

## 2. LEARNING OUTCOMES

<p><b>Learning Outcomes</b></p> <p><i>Please describe the learning outcomes of the course: Knowledge, skills and abilities acquired after the successful completion of the course.</i></p> <p>Upon successful completion of their thesis, participants will be in a position to:</p> <ul style="list-style-type: none"> <li>• possess in-depth knowledge of the subject treated in it.</li> <li>• perceive the material studied in the Program's courses as a coherent whole.</li> <li>• look up and take in related scientific publications in Greek and English</li> <li>• process and evaluate data and results</li> <li>• develop, implement and assess mathematical/computational models for the analysis/design or forecasting or management of any system (natural or man-made, mechanical, financial, societal, etc.).</li> </ul>
<p><b>General Skills</b></p> <p><i>Name the desirable general skills upon successful completion of the module</i></p> <p><i>Search, analysis and synthesis of data and information,      Project design and management</i></p>

<i>ICT Use</i>	<i>Equity and Inclusion</i>
<i>Adaptation to new situations</i>	<i>Respect for the natural environment</i>
<i>Decision making</i>	<i>Sustainability</i>
<i>Autonomous work</i>	<i>Demonstration of social, professional and moral responsibility and sensitivity to gender issues</i>
<i>Teamwork</i>	<i>Critical thinking</i>
<i>Working in an international environment</i>	<i>Promoting free, creative and inductive reasoning</i>
<i>Working in an interdisciplinary environment</i>	
<i>Production of new research ideas</i>	

- Search, analysis and synthesis of data and information, with ICT use
- Working in an interdisciplinary environment
- Generating new research ideas
- Autonomous work
- Promoting free, creative and inductive reasoning
- Project design and management (with emphasis on mathematical models)

### 3. COURSE CONTENT

Graduate Thesis

### 4. LEARNING & TEACHING METHODS - EVALUATION

<b>TEACHING METHOD</b> <i>Face to face, Distance learning, etc.</i>	Collaboration with advisor	
<b>USE OF INFORMATION &amp; COMMUNICATIONS TECHNOLOGY (ICT)</b> <i>Use of ICT in Teaching, in Laboratory Education, in Communication with students</i>	Use of ICT in Teaching and Communication with the students <ul style="list-style-type: none"> <li>• MsTeams/ e-class, webmail</li> <li>• Matlab, SPSS</li> </ul>	
<b>TEACHING ORGANIZATION</b> <i>The ways and methods of teaching are described in detail.</i>  <i>Lectures, Seminars, Laboratory Exercise, Field Exercise, Bibliographic research &amp; analysis, Tutoring, Internship (Placement), Clinical Exercise, Art Workshop, Interactive learning, Study visits, Study / creation, project, creation, project. Etc.</i>  <i>The supervised and unsupervised workload per activity is indicated here, so that total workload per semester complies to ECTS standards.</i>	<b>Activity</b>	<b>Workload/semester</b>
	Thesis development and writeup	200
	Thesis defense	50
	Literature study and review	200
	<b>Course Total</b>	<b>450</b>
<b>STUDENT EVALUATION</b> <i>Description of the evaluation process</i>  <i>Assessment Language, Assessment Methods, Formative or Concluding, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Essay / Report, Oral Exam, Presentation in audience, Laboratory Report,</i>	Submission and approval of Thesis book  Oral presentation and defense of Thesis to three-member examination committee	

*Clinical examination of a patient, Artistic interpretation, Other/Others*

*Please indicate all relevant information about the course assessment and how students are informed*