



## COURSE OUTLINE

### (1) GENERAL

SCHOOL	School of Technology		
ACADEMIC UNIT	Department of Environmental Sciences		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE	AY803	SEMESTER	8th
COURSE TITLE	DISSERTATION		
INDEPENDENT TEACHING ACTIVITIES	WEEKLY TEACHING HOURS		CREDITS
Teaching Hours		-	10
COURSE TYPE	Skills development		
PREREQUISITE COURSES	Completion of 80% of the ECTS programme requirement		
LANGUAGE OF INSTRUCTION and EXAMINATIONS	Greek		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	No		
COURSE WEBSITE (URL)	<a href="https://env.uth.gr/en/dissertation/">https://env.uth.gr/en/dissertation/</a>		

### (2) LEARNING OUTCOMES

<b>Learning outcomes</b>
<b>1. General objectives – General learning outcomes</b> The objectives of the course are to enable students to: <ul style="list-style-type: none"><li>Plan and write a Dissertation, that is, a scientific monograph on a research topic with a strong element of originality and autonomy. This entails the systematic review of bibliography in a scientific area relevant to the background and specialization courses they have been taught and involves in-depth consideration of a problem or question in a specific subject matter using appropriate research methodology.</li><li>Decide on a suitable topic, after the evaluating the topics proposed by the teaching staff, contact and plan out future meetings with the supervisor and use the guidance offered to research the international literature and document the originality of the proposed work.</li><li>Determine of the aims and time-schedule for writing the dissertation.</li><li>Acquire knowledge and learn methodologies and techniques required to deepen into the subject matter.</li><li>Submit the actual dissertation that will meet the requirements, within the set deadlines.</li></ul>
<b>1.1. Knowledge</b> <ul style="list-style-type: none"><li>Recognize and classify the existing knowledge in the chosen research topic through the systematic review of up-to-date relevant international literature.</li><li>Formulate the research question after systematic evaluation of the literature.</li><li>Select and apply a suitable scientific methodology for the analysis of the research question.</li></ul>
<b>1.2. Skills</b> <ul style="list-style-type: none"><li>Search for, collect and select works related to the scientific subject to be researched.</li><li>Collect and analyze data.</li><li>Process the results using suitable research methods and tools.</li><li>Review the wider subject matter during the processing phases of the dissertation and present it in an organized text with sections.</li></ul>
<b>1.3. Competence</b> <ul style="list-style-type: none"><li>Select and write a suitable research proposal.</li><li>Select and apply suitable scientific methods and tools for the analysis.</li><li>Search, analyse and synthesize data and information using the appropriate technologies.</li><li>Evaluate the usefulness of the results to the environment.</li><li>Present the results to a scientific audience.</li></ul>
<b>General Competences</b> <ul style="list-style-type: none"><li>Search for, analysis and synthesis of data and information, with the use of the necessary technology</li></ul>

- Working independently
- Working in an interdisciplinary environment
- Criticism and self-criticism
- Production of free, creative and inductive thinking
- Recognition of the functioning and problems of the man-made and natural environment
- Scientific analysis of the most specialized knowledge in the cognitive field of the researched topic

### (3) SYLLABUS

- Critical review of existing literature.
- Selection, writing and explanation of a suitable research topic.
- Application of suitable methodologies and tools in the scientific research area, the analysis and taxonomy of the related literature, and the investigation of suitable research paradigms.
- Completion of the analysis and the interpretation of the research results in relation to the selected research question, and the use of proper referencing and citation methodology.
- Presentation in a scientific audience.

### (4) TEACHING and LEARNING METHODS – EVALUATION

<b>DELIVERY</b>	<ul style="list-style-type: none"> <li>• Regular meetings with the supervisor.</li> <li>• Attending presentations of graduates and other research projects.</li> </ul>	
<b>USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY</b>	<ul style="list-style-type: none"> <li>• Use of PowerPoint slides</li> <li>• View material in video</li> <li>• Communication with students via e-mail</li> <li>• Use of asynchronous distance learning (e-class)</li> </ul>	
<b>TEACHING METHODS</b>	<b>Activity</b>	<b>Semester workload</b>
	Meetings, Presentations	30
	Study and analysis of bibliography	50
	Research and analysis	100
	Essay writing	70
	<b>Course total (25 hours workload per credit)</b>	<b>250</b>
<b>STUDENT PERFORMANCE EVALUATION</b>	<ul style="list-style-type: none"> <li>• Students submit their dissertation in printed and electronic form, using a selected document template, in Greek or English. It is subject to plagiarism control using the University plagiarism software.</li> <li>• Students present orally and defend their Dissertation in public, in Greek or English. It is assessed by a three-member committee of teaching staff, one of whom being the supervisor who has already consented to the assessment process.</li> <li>• Dissertations are presented on dates decided upon by the Department assembly.</li> </ul> <p>The assessment criteria are as follows: Originality 20%, coverage of the subject matter 20%, application of methodologies 30%, quality of results 20%, presentation 10%.</p> <p>The final score is the average of the final grades of the three examiners, rounded to the nearest integer unit, with a minimum passing grade of 5.0 (five) out of 10.</p>	

### (5) ATTACHED BIBLIOGRAPHY

- International journals and books related to the research area.