

## COURSE OUTLINE

### (1) GENERAL

<b>SCHOOL</b>	School of Engineering		
<b>ACADEMIC UNIT</b>	Department of Naval Architecture		
<b>LEVEL OF STUDIES</b>	Undergraduate		
<b>COURSE CODE</b>	NAOME1372	<b>SEMESTER</b>	10 <sup>th</sup>
<b>COURSE TITLE</b>	<b>Diploma Thesis</b>		
<b>INDEPENDENT TEACHING ACTIVITIES</b>		<b>WEEKLY TEACHING HOURS</b>	<b>CREDITS (ECTS)</b>
Independent study			30
<b>COURSE TYPE</b> <i>general background, specialbackground, specialised general knowledge, skills development</i>	Specialised		
<b>PREREQUISITE COURSES:</b>			
<b>LANGUAGE OF INSTRUCTION and EXAMINATIONS:</b>	Greek		
<b>IS THE COURSE OFFERED TO ERASMUS STUDENTS</b>	No		
<b>COURSE WEBSITE (URL)</b>	<a href="http://www.na.uniwa.gr/diploma_thesis/">http://www.na.uniwa.gr/diploma_thesis/</a>		

### (2) COURSE GOALS / LEARNING OUTCOMES

The Diploma Thesis is prepared individually and is an independent scientific and systematic approach to the analysis of a topic, based on existing literature and / or research. At the same time, the student utilizes the knowledge and skills acquired during his studies. For the monitoring and examination of the Diploma Thesis, a three-member committee is appointed by the General Assembly of our Department, which consists of the supervising faculty member and two faculty members of the Department or other Departments with related scientific specialty.

Through the Diploma Thesis, the student under the guidance of the supervising faculty member, is invited to develop the skills of critical and combinatorial thinking, organization and analysis for in-depth investigation of a distinct subject of specialization that interests him and by applying strict, systematic and scientific approach.

In this sense, the elaboration of the Diploma Thesis is considered crucial while it provides the senior undergraduate students with the opportunity for synthesis and utilization, both in theoretical and experimental field, of the knowledge acquired during their studies, thus to promote scientific thinking and research.

Upon successful completion of the Diploma Thesis, the students should be able to:

- Clearly recognize the limits of a problem to be solved and fully recognize all its basic and secondary aspects, focusing on key points.
- To use in a critical and synthetic manner the available bibliography for a specific thematic area.
- To design a research plan and to develop an appropriate methodology for approaching and investigating a topic of study.

- To substantiate their views and arguments.
- To know how to write a scientific essay.
- Recognize and evaluate the reliability and validity of the results of solving a problem.
- To successfully make a complete presentation of a topic.

### (3) COURSE CONTENT / SYLLABUS

- Search, analysis and synthesis of data and information, using the necessary technologies.
- Adaptation to new situations.
- Decision making.
- Autonomous work.
- Exercise criticism and self-criticism.

The content of the Diploma Thesis is shaped according to the subject of interest. Indicatively, the basic stages for its successful completion are mentioned as following:

- Analysis and understanding of the subject of study.
- Critical review of the relevant literature.
- Organization and design of a research plan and the required steps to complete the topic.
- Technical and theoretical documentation of the solution methodology.
- Complete the required steps according to the selected solution approach.
- Analysis of the results and implementation of the respective conclusions.
- Presentation of the Diploma Thesis to the three-member committee.

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

<p style="text-align: center;"><b>DELIVERY</b> Face-to-face, Distance learning, etc.</p>	Face-to-face									
<p style="text-align: center;"><b>USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY</b> Use of ICT in teaching, laboratory education, communication with students</p>	<ul style="list-style-type: none"> <li>• Support learning through the electronic e-class platform.</li> <li>• Lectures through software for presentations available on the course website.</li> </ul>									
<p style="text-align: center;"><b>TEACHING METHODS</b> <i>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</i></p>	<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="text-align: left;"><i>Activity</i></th> <th style="text-align: left;"><i>Workload (hours)</i></th> </tr> </thead> <tbody> <tr> <td>Independent study</td> <td>810</td> </tr> <tr> <td>Diploma Thesis writing</td> <td>40</td> </tr> <tr> <td>Course total</td> <td><b>850</b></td> </tr> </tbody> </table>		<i>Activity</i>	<i>Workload (hours)</i>	Independent study	810	Diploma Thesis writing	40	Course total	<b>850</b>
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Course total	<b>850</b>									
<p style="text-align: center;"><b>STUDENT PERFORMANCE EVALUATION</b> <i>Description of the evaluation procedure Language of evaluation, methods of</i></p>	Final examination by the appointed three-member committee of faculty members of the Department (100%).									

*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*

The examination (100%) includes the evaluation of the deliverable of the Diploma Thesis and the evaluation - through an appropriate presentation by the student, of the following points:

- Understanding of the research topic of study and review of the relevant literature.
- Organization and planning of the required steps to complete the topic.
- Presentation of the elaboration of the required steps according to the chosen solution approach.
- Contribution to scientific dialogue through findings.
- Analysis of the results and implementation of the respective conclusions.

#### **(5) ATTACHED BIBLIOGRAPHY**

The proposed bibliography is shaped according to the subject of the dissertation under study.