

COURSE OUTLINE

1. GENERAL

SCHOOL	NATURAL SCIENCES		
DEPARTMENT	MATHEMATICS		
LEVEL OF COURSE	UNDERGRADUATE		
COURSE CODE	MAT_AL461	SEMESTER OF STUDIES	8 th
COURSE TITLE	UNDERGRADUATE THESIS		
INDEPENDENT TEACHING ACTIVITIES <i>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</i>	TEACHING HOURS PER WEEK	ECTS CREDITS	
		12	
<i>Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).</i>			
COURSE TYPE <i>general background, special background, specialised general knowledge, skills development</i>	Elective course		
PREREQUISITE COURSES:	<u>Recommended prerequisite knowledge:</u> Students cannot register for this course before the 7 th semester of their studies.		
TEACHING AND ASSESSMENT LANGUAGE:	Greek		
THE COURSE IS OFFERED TO ERASMUS STUDENTS	No		
COURSE WEBPAGE (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*

Students who have written an undergraduate thesis have probed a topic of their interest at a deeper level. The undergraduate thesis, which can be analytic, synthetic or application-oriented, reflects the student's theoretical knowledge and methodological skills as well as their ability to write and present a topic in a unified way, based on the commonly accepted principles of the science of mathematics. The presentation and examination of the thesis measures the student's ability to present their work and to provide all the necessary answers that can make the specific topic accessible to an appropriate audience.

General Abilities

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, with the use of the necessary technology

Adapting to new situations

Decision-making

Working independently

Team work

Working in an international environment

Working in an interdisciplinary environment

Production of new research ideas

Project planning and management

Respect for difference and multiculturalism

Respect for the natural environment

Showing social, professional and ethical responsibility and sensitivity to gender issues

Criticism and self-criticism

Production of free, creative and inductive thinking

Others...

- Research, analysis and synthesis of data and information together with the use of the necessary technologies.
- Decision making.
- Independent work.
- Production of new research ideas.
- Promotion of free, creative and deductive thinking.

3. COURSE CONTENT

A thesis can be an important part of undergraduate studies. Special attention needs to be paid to the choice of the topic, the pursuit of the thesis, its write-up and its presentation. The thesis is supervised by a faculty member. It is a personal undertaking, assigned by the faculty member only to one student, not to a group of students.

The work is supposed to be exclusively performed by the student under the supervision of the faculty member. Any interference of a third person in this process without the supervisor's consent is considered plagiarism and is punishable as such.

Undergraduate theses are assigned at the beginning of the Fall Semester of every academic year. They can be carried out during two academic semesters which must necessarily be the Fall and Spring Semester of the same academic year. Registering for the elective course "Undergraduate Thesis" can only be done during the Spring Semester. The credit units are the maximum allowable number. The course should be normally completed by June 1st. This is the minimum allowable time period and can be automatically extended until September 30th if the supervising faculty member feels that this is necessary in order to optimize the final outcome.

Students work on their theses by their own initiative, under the guidance of their supervisors. The thesis is not meant to be a seminar-type course project. It should be viewed as the student's most important undergraduate project and accompanying text, representative of their whole undergraduate experience. The presentation and examination of the thesis takes place in front of a 3-member faculty committee.

The evaluation of the thesis is based on the completeness of its content, the extent of its originality, the degree of the student's handling of the demands of the topic and the supervisor's instructions, the aesthetic quality of the write-up and the oral presentation and examination. After completion of the examination, the committee fills out and signs the relevant report form which includes a grade for the course (on a 0-10 scale). It is the supervisor's responsibility to forward the report form to the Departmental Secretary's office together with the grade report from the electronic grade system.

4. TEACHING AND LEARNING METHODS - ASSESSMENT

<p>TEACHING METHOD <i>Face-to-face, Distance learning, etc.</i></p>	Face-to-face	
<p>USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES <i>Use of ICT in teaching, laboratory education, communication with students</i></p>		
<p>TEACHING ORGANIZATION <i>The manner and methods of teaching are described in detail.</i></p> <p><i>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.</i></p> <p><i>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>	Activity	Semester workload
	Bibliographic study and research activity	150
	Write-up and presentation of the thesis	150
<p>STUDENT ASSESSEMENT <i>Description of the evaluation procedure</i></p> <p><i>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</i></p> <p><i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students</i></p>	<p>Assessment Language: Greek Assessment Language for Erasmus students: ---</p> <p>Assessment methods Presentation to a 3-member committee</p> <p>Minimum passing grade: 5 Maximum passing grade: 10</p>	

5. RECOMMENDED LITERATURE

It depends on the topic of the thesis and it can be in Greek or in a foreign language.