

COURSE OUTLINE

1. GENERAL

SCHOOL	NATURAL SCIENCES		
DEPARTMENT	MATHEMATICS		
LEVEL OF COURSE	UNDERGRADUATE		
COURSE CODE	MAT_DI432	SEMESTER OF STUDIES	7 th
COURSE TITLE	INTRODUCTION TO THE SCIENCE OF EDUCATION		
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	
Lectures and Tutorials	4	6	
<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> ANALYTIC GEOMETRY, INTRODUCTION TO ALGEBRA AND SET THEORY		
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*

Upon successful completion of the course, students should:

- know the history of education and the main educational theories valid to this day.
- know the social and cultural developments which necessarily change the content and objectives of education
- be able to rethink their own experiences in learning/teaching and to connect them with the Critical Theory and Practice of Education.

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...

- Autonomous work.
- Collaborative work.
- To study and work/think in an international environment.
- To develop creative and deductive thinking.

3. COURSE CONTENT

- Evolution of Pedagogy from “art” or utopian system to a science. Questions of foundation. Other relevant sciences. Sociological considerations.
- Social function of School. Curriculum and Aims of Education – especially in Mathematics. Multiculturalism. Interdisciplinarity & Critical Education. Science and Everyday Life.
- Authoritative and Liberal education. Social representations about “errors” in Mathematics and their pedagogical treatment. Reflective model of Teachers’ Education.

4. TEACHING AND LEARNING METHODS - ASSESSMENT

TEACHING METHOD <i>Face-to-face, Distance learning, etc.</i>	Lectures (face to face)	
USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES <i>Use of ICT in teaching, laboratory education, communication with students</i>		
TEACHING ORGANIZATION <i>The manner and methods of teaching are described in detail.</i> <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> <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>	Activity	Semester workload
	Lectures	55
	Study (at their own)	80
	Presentation and Discussion of Projects	12
	Final Exam	3
	Total number of hours for the Course (25 hours of work-load per ECTS credit)	150
STUDENT ASSESSEMENT <i>Description of the evaluation procedure</i> <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> <i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students</i>	Assessment Language: Greek Assessment Language for Erasmus students: --- Assessment methods: ✓ Final exam ✓ Project performance Minimum passing grade: 5 Maximum passing grade: 10	

5. RECOMMENDED LITERATURE

(in Greek)

- Μασσαγγούρας Ηλίας Γ. και Χατζηγεωργίου Γιάννης. *Παιδαγωγικο-διδακτικά Α': Εισαγωγή στις Επιστήμες της Παιδαγωγικής*. Εκδόσεις Gutenberg, 2009.
- Mialaret Gaston. *Περί Παιδαγωγικής και Εκπαίδευσης*. Εκδόσεις Gutenberg, 2011.