

COURSE OUTLINE

(1) GENERAL

SCHOOL	School of Education		
ACADEMIC UNIT	Department of Primary Education		
LEVEL OF STUDIES	Bachelor		
COURSE CODE	ΔEY019	SEMESTER	7
COURSE TITLE	Issues in Mathematics teaching in Primary School		
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>	WEEKLY TEACHING HOURS	CREDITS	
	3	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>	Special background		
PREREQUISITE COURSES:	Didactics of Mathematics – Teaching practice		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes		
COURSE WEBSITE (URL)	http://ecourse.uoi.gr/course/view.php?id=211		

(2) LEARNING OUTCOMES

<p>Learning outcomes</p> <p><i>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.</i></p> <p><i>Consult Appendix A</i></p> <ul style="list-style-type: none"> • <i>Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area</i> • <i>Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B</i> • <i>Guidelines for writing Learning Outcomes</i> 								
<p>By the end of the course the students are expected to be able to:</p> <ul style="list-style-type: none"> • Plan effectively a module of mathematics having given learning objectives. • Integrate in their teaching design elements that enhance the connections of mathematics with everyday life. • Evaluate a given teaching scenario as to its effectiveness. • Choose the most appropriate assessment method or to design an assessment method that meets their objectives. 								
<p>General Competences</p> <p><i>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?</i></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;"><i>Search for, analysis and synthesis of data and information, with the use of the necessary technology</i></td> <td style="width: 50%; border: none;"><i>Project planning and management</i></td> </tr> <tr> <td style="border: none;"><i>Adapting to new situations</i></td> <td style="border: none;"><i>Respect for difference and multiculturalism</i></td> </tr> <tr> <td style="border: none;"><i>Decision-making</i></td> <td style="border: none;"><i>Respect for the natural environment</i></td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;"><i>Showing social, professional and ethical responsibility and</i></td> </tr> </table>	<i>Search for, analysis and synthesis of data and information, with the use of the necessary technology</i>	<i>Project planning and management</i>	<i>Adapting to new situations</i>	<i>Respect for difference and multiculturalism</i>	<i>Decision-making</i>	<i>Respect for the natural environment</i>		<i>Showing social, professional and ethical responsibility and</i>
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<i>Decision-making</i>	<i>Respect for the natural environment</i>							
	<i>Showing social, professional and ethical responsibility and</i>							

<i>Working independently</i>	<i>sensitivity to gender issues</i>
<i>Team work</i>	<i>Criticism and self-criticism</i>
<i>Working in an international environment</i>	<i>Production of free, creative and inductive thinking</i>
<i>Working in an interdisciplinary environment</i>
<i>Production of new research ideas</i>	<i>Others...</i>

- 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
- Production of free, creative and inductive thinking

(3) SYLLABUS

- The pedagogical content knowledge
- Learning materials – The concept maps and their uses
- Didactical study of specific mathematical concepts
- Use and types of questions in the classroom
- Constructing questions based on their level of difficulty
- Problem posing, its teaching and evaluation
- Differentiated instruction and its review
- Assessment principles in various curricula
- Assessment methods – connection with question types
- Assessment in relation to skill levels
- Overview of teaching practices in connection with the Greek education system

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY <i>Face-to-face, Distance learning, etc.</i>	Face-to-face	
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY <i>Use of ICT in teaching, laboratory education, communication with students</i>	Use of the ecourse learning platform, electronic communication and feedback to the students in relation to their assignments	
TEACHING METHODS <i>The manner and methods of teaching are described in detail.</i> <i>Lectures, seminars, laboratory practice,</i>	Activity	Semester workload
	Lectures	39
	Literature study	68

<i>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>	Assignments	40
	Examination	3
	Course total	150
<p align="center">STUDENT PERFORMANCE EVALUATION</p> <p><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>Language of evaluation: Greek Written examination at the end of semester. Problem solving. Written assignments</p>	

(5) ATTACHED BIBLIOGRAPHY

<p>- Suggested bibliography in Greek:</p> <ul style="list-style-type: none"> • Θεωρία και Πράξη στη Διδασκαλία των Μαθηματικών - Κολέζα Ευγενία • Ρεαλιστικά Μαθηματικά στην Πρωτοβάθμια Εκπαίδευση - Streefland Leen (επιμ. Ε. Κολέζα) • Διδάσκοντας Μαθηματικά για Δημοτικό και Γυμνάσιο. Μια αναπτυξιακή διαδικασία - Van de Walle John • Διδακτική βασικών μαθηματικών εννοιών - Χασάπης Δημήτρης • Γνωσιολογική και Διδακτική προσέγγιση των Στοιχειωδών Μαθηματικών Εννοιών - Κολέζα Ευγενία. <p>- Related academic journals:</p> <ul style="list-style-type: none"> • Educational Studies in Mathematics • Journal for Research in Mathematics Education • Journal of Mathematical Behavior
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