

## COURSE OUTLINE

### (1) GENERAL

<b>SCHOOL</b>	SCHOOL OF SCIENCES		
<b>ACADEMIC UNIT</b>	DEPARTMENT OF MATHEMATICS		
<b>LEVEL OF STUDIES</b>	UNDERGRADUATE PROGRAM		
<b>COURSE CODE</b>		<b>SEMESTER</b>	E
<b>COURSE TITLE</b>	DIDACTICS OF EUCLIDEAN GEOMETRY		
<b>INSTRUCTOR</b>	Konstantina Zorbala		
<b>INDEPENDENT TEACHING ACTIVITIES</b>	<b>WEEKLY TEACHING HOURS</b>	<b>CREDITS</b>	
	4	6	
<b>COURSE TYPE</b>	Special background		
<b>PREREQUISITE COURSES:</b>	NO		
<b>LANGUAGE OF INSTRUCTION and EXAMINATIONS:</b>	GREEK		
<b>IS THE COURSE OFFERED TO ERASMUS STUDENTS</b>	YES		
<b>COURSE WEBSITE (URL)</b>	<a href="http://www.math.aegean.gr/index.php/en/academics/undergraduate-programs">http://www.math.aegean.gr/index.php/en/academics/undergraduate-programs</a>		

### (2) LEARNING OUTCOMES

<b>Learning outcomes</b>
<b>General Competences</b>
Working independently. Team working. Working in an interdisciplinary environment.

### (3) SYLLABUS

Euclidean geometry brief history. A research review on teaching and learning geometrical concepts. Learning Theories in geometry (Piaget, Van Hiele, Polya). Proof, Constructions. Teaching geometry using technology. Educational activities in geometry.	
<b>TEACHING MATERIAL DISTRIBUTION</b>	The teaching material of the course is uniformly distributed during the semester.

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

<b>DELIVERY</b>	Face-to-face lectures	
<b>USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY</b>	<ul style="list-style-type: none"> <li>• Communication with students via e-mail.</li> <li>• Uploading course material on moodle system.</li> </ul>	
<b>TEACHING METHODS</b>	<b>Activity</b>	<b>Semester workload</b>
	Lectures	52
	Independent study	98
	Course total (25 per ECTS)	<b>150</b>
<b>COURSE COMMITMENTS</b>	Attending course is not obligatory.	
<b>STUDENT PERFORMANCE</b>	Student's evaluation is done in Greek through a written	

<b>EVALUATION</b>	examination. For students with disabilities, evaluation takes place via oral exams.
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**(5) ATTACHED BIBLIOGRAPHY**

1. Θωμαΐδης Γιάννης, Ανδρέας Πούλος (2000). Διδακτική της Ευκλείδειας Γεωμετρίας. Θεσσαλονίκη: Εκδόσεις ΖΗΤΗ
2. Αγγελόπουλος Βένιος, Βασιλείου Ευστάθιος, Γαγάτσης Αθανάσιος, κ.α. (2010). Η Γεωμετρία και η Διδακτική της στη Σύγχρονη Εκπαίδευση. Θεσσαλονίκη: Εκδόσεις ΖΗΤΗ.