

## COURSE OUTLINE

### (1) GENERAL

<b>SCHOOL</b>	SCHOOL OF SCIENCES		
<b>ACADEMIC UNIT</b>	DEPARTMENT OF MATHEMATICS		
<b>LEVEL OF STUDIES</b>	POSTGRADUATE <b>Studies in Mathematics</b>		
<b>COURSE CODE</b>	<b>D1.5</b>	<b>SEMESTER</b>	
<b>COURSE TITLE</b>	TOPICS IN MODELING		
<b>INDEPENDENT TEACHING ACTIVITIES</b>	<b>WEEKLY TEACHING HOURS</b>	<b>CREDITS</b>	
	2	6.5	
<b>COURSE TYPE</b>	SPECIALISED GENERAL KNOWLEDGE		
<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>
<p>Study of special topic in Mathematical Modelling with purpose</p> <ul style="list-style-type: none"> <li>• The understanding of specific, advanced and of postgraduate level, topics in the area.</li> <li>• Gather and interpret relevant evidence to form judgments on scientific issues.</li> <li>• To Communicate information, ideas, problems and solutions to both specialist and non-specialist audiences.</li> <li>• To develop the ability to advance his study at a research level in this area, or in related areas of Mathematical Modelling.</li> </ul>
<b>General Competences</b>
Working independently. Team work. Working in an interdisciplinary environment. Production of free, creative and inductive thinking. Search for analysis and synthesis of data and information

### (3) SYLLABUS

The syllabus is decided by the lecturer and is concentrated on some advanced topic in Mathematical Modeling.

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

<b>DELIVERY</b>	Face-to-face	
<b>USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY</b>	Communication with students via e-mail	
<b>TEACHING METHODS</b>	<b>Activity</b>	<b>Semester workload</b>
	Lectures	26
	Independent study	99
	Written assignments	37.5
	Course total (25 per ECTS)	<b>125</b>
<b>STUDENT PERFORMANCE EVALUATION</b>	<p>Student evaluation is done in Greek through a written examination which includes short-answer equations and problem solving.</p> <p>For students with disabilities, evaluation takes place via oral exams.</p>	

**(5) ATTACHED BIBLIOGRAPHY**

The bibliography is determined by the lecturer.