

## Basic Mathematics

<b>Course Title</b>	Basic Mathematics			
<b>Course Code</b>	TMAT-100			
<b>Course Type</b>	This course serves as both Elective and Requirement, according to the program.			
	All Programs		General Elective	
<b>Level</b>	Bachelor (1 <sup>st</sup> Cycle)			
<b>Year / Semester</b>	Year 1, A' Semester			
<b>Teacher's Name</b>	Mariana Pelekanos			
<b>ECTS</b>	4	<b>Lectures / week</b>	3	<b>Laboratories / week</b>
<b>Course Purpose and Objectives</b>	This course aims to provide students with a good overall knowledge of the fundamental mathematical concepts, techniques and theories of Mathematics applicable to real-world problems.			
<b>Learning Outcomes</b>	<p>Upon completion of this course students will be able to:</p> <ol style="list-style-type: none"> <li>1. Demonstrate a clear understanding of the fundamental mathematical principles, techniques, formulas and theories.</li> <li>2. Develop a range of mathematical techniques for the solution of basic problems.</li> <li>3. Solve problems using algebra and comprehend the basic graphical methods.</li> <li>4. Explore the various applications of mathematical logic and formulas in real-life examples.</li> </ol>			
<b>Prerequisites</b>	Placement Test		<b>Required</b>	
<b>Course Content</b>	<ol style="list-style-type: none"> <li>1. Real Numbers</li> <li>2. Logic of algebra - polynomials</li> <li>3. Linear equations</li> <li>4. Systems of linear equations</li> <li>5. Quadratic equations</li> <li>6. Introduction to graphing</li> <li>7. Applications</li> </ol>			

<b>Teaching Methodology</b>	The course is delivered through lectures, tutorials and exercises.								
<b>Mode of delivery</b>	Face to face.								
<b>Bibliography</b>	<p><b>Required</b></p> <ol style="list-style-type: none"> <li>1. Jones, G., Introduction to College Mathematics, 3rd ed., Murray State University, 2005.</li> <li>2. Dugopolski.M., Intermediate Algebra, 6th ed., McGraw Hill, 2009.</li> </ol>								
<b>Assessment</b>	<p>The following assessment methods are employed to assess this course:</p> <table border="1" data-bbox="517 703 1369 963"> <tr> <td>30 – 50 %</td> <td>Final Exam</td> </tr> <tr> <td>20 – 40 %</td> <td>Mid –Term / Tests / Quizzes</td> </tr> <tr> <td>10 – 30 %</td> <td>Assignments / Projects</td> </tr> <tr> <td>0 – 10 %</td> <td>Class Attendance &amp; Participation</td> </tr> </table>	30 – 50 %	Final Exam	20 – 40 %	Mid –Term / Tests / Quizzes	10 – 30 %	Assignments / Projects	0 – 10 %	Class Attendance & Participation
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<b>Language</b>	English								