

<b>Course Title</b>	Business Mathematics			
<b>Course Code</b>	TMAT-120			
<b>Course Type</b>	This course serves as both Elective and Requirement, according to the program.			
	Hospitality Diploma/Bachelor		Requirement	
	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. Define business calculus and financial mathematics,</li> <li>2. Comprehend the solution methods of mathematical problems in the areas of business calculus, simple and compound interest account, use of compound interest account, loan and consumer credit</li> <li>3. Connect acquired knowledge and skills with practical problems</li> <li>4. Solve problems using interest account and their basic applications in practice, and comprehend the basic graphical methods</li> <li>5. Explore the various applications of mathematical logic and formulas in real-life examples.</li> </ol>			
<b>Prerequisites</b>	None		<b>Required</b>	
<b>Course Content</b>	<ol style="list-style-type: none"> <li>1. Basic business calculus: <ul style="list-style-type: none"> <li>• Ratios and proportions.</li> <li>• Rule of three (simple and compound).</li> <li>• Percentage calculus.</li> <li>• Division calculus (simple and compound).</li> <li>• Mixture calculus (simple and compound).</li> <li>• Chain calculus.</li> </ul> </li> </ol>			

	<p>2. Basic interest account:</p> <ul style="list-style-type: none"> <li>• Interest and interest rates.</li> <li>• Simple interest account.</li> <li>• Compound interest account.</li> <li>• Types of interest rates.</li> </ul> <p>3. Use of compound interest account:</p> <ul style="list-style-type: none"> <li>• Final value of a single amount</li> <li>• Present value of a single amount.</li> <li>• Final value of a series of periodic payments (withdrawals).</li> <li>• Present value of periodic payments (withdrawals).</li> <li>• Perpetuity. Continuous compounding.</li> </ul>								
<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> <p>1. Slater, J., Wittry, M., S. (2016). Practical Business Math Procedures with Business Math Handbook. USA, NY: McGraw-Hill Education.</p>								
<b>Assessment</b>	<p>The following assessment methods are employed to assess this course:</p> <table border="1" data-bbox="531 1238 1383 1496"> <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								