<table>
<tr><td>Course Title</td><td colspan="5">Business Mathematics</td></tr>
<tr><td>Course Code</td><td colspan="5">TMAT-120</td></tr>
<tr><td>Course Type</td><td colspan="5">This course serves as both Elective and Requirement, according to the program.
<table><tr><td>Hospitality Diploma/Bachelor</td><td>Requirement</td></tr><tr><td>All Programs</td><td>General Elective</td></tr></table></td></tr>
<tr><td>Level</td><td colspan="5">Diploma (Short Cycle)</td></tr>
<tr><td>Year / Semester</td><td colspan="5">Year 1, A’ Semester</td></tr>
<tr><td>Teacher’s Name</td><td colspan="5">Markos Takkas</td></tr>
<tr><td>ECTS</td><td>4</td><td>Lectures / week</td><td>3</td><td>Laboratories / week</td><td></td></tr>
<tr><td>Course Purpose and Objectives</td><td colspan="5">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.</td></tr>
<tr><td>Learning Outcomes</td><td colspan="5">Upon completion of this course students will be able to:
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;
Connect acquired knowledge and skills with practical problems;
Solve problems using interest account and their basic applications in practice, and comprehend the basic graphical methods;
Explore the various applications of mathematical logic and formulas in real-life examples.</td></tr>
<tr><td>Prerequisites</td><td colspan="3">None</td><td>Required</td><td></td></tr>
<tr><td>Course Content</td><td colspan="5">Basic business calculus:
Ratios and proportions.
Rule of three (simple and compound).
Percentage calculus.
Division calculus (simple and compound).
Mixture calculus (simple and compound).
Chain calculus.
Basic interest account:</td></tr>
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Interest and interest rates.
Simple interest account.
Compound interest account.
Types of interest rates.
Use of compound interest account:
Final value of a single amount
Present value of a single amount.
Final value of a series of periodic payments (withdrawals).
Present value of periodic payments (withdrawals).
Perpetuity. Continuous compounding.

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<tr><td>Teaching Methodology</td><td>The course is delivered through lectures, tutorials and exercises.</td></tr>
<tr><td>Mode of delivery</td><td>Face to face.</td></tr>
<tr><td rowspan="2">Bibliography</td><td>Required</td></tr>
<tr><td>Slater, J., & Wittry, S. (2023). Practical Business Math Procedures, 14th ed. McGraw Hill.
Bronson, G., Bronson R. & Kieff, M. (2021) Mathematics for Business (7th ed.), Mercury Learning and Information.</td></tr>
<tr><td>Assessment</td><td>The following assessment methods are employed to assess this course:
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<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 & Participation</td></tr>
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<tr><td>Language</td><td>English</td></tr>
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