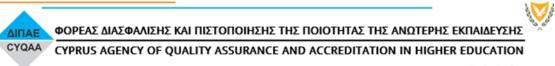
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Course title	Business Mathematics				
Course code	MATH108				
Course type	Theoretical, Elective Course				
Level	Undergraduate				
Year / Semester	Year 1 Semester 1				
Teacher's name	Dr. Kyriacou Sofia				
ECTS	6	Lectures / week	3	Laboratories / week	
Course purpose and objectives	The course aims to help students to acquire applied mathematical knowledge and skills that are considered essential to the progression of their career in the business sector. The course emphasises on business concepts and scenarios that require mathematical solution and places each concept in the context of the business landscape using specific examples.				
Learning outcomes	 Upon the completion of the course, students are expected to: Know basic terms of Algebra and graphs of linear and quadratic functions, power functions and general polynomial functions, and exponential and logarithmic functions. Understand the calculation and rounding of whole numbers and decimals. Apply arithmetic operations involving whole numbers, fractions, decimals, ratios, and percentages. Solve problems related to prices, sales, trade discounts, merchandise. 				
Prerequisites	None		Require	d None	
Course content	 Algebra Quadratic Equations Solving linear inequalities (geometric method only) Determinants and matrices Whole numbers and decimal numbers Whole numbers Applied problems Decimal numbers Addition and subtraction of decimal numbers 				

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	Multiplication and division of decimal numbers		
	• Fractions		
	Adding and subtracting fractions		
	 Adding and subtracting mixed numbers 		
	Multiplying and dividing fractions		
	 Convert decimals to fractions and fractions to decimals 		
	• Percentages		
	 Convert decimals and fractions to percentages 		
	• Equations and formulas		
	Solving equations		
	Business formulas		
	Mathematics related to purchases and sales		
	Invoices and trade discounts		
	Selling price		
	Price reduction		
	Turnover and control of goods		
	The course content will be taught using:		
Teaching methodology	 Power Point presentations Guided discussions with the active participation of students Examples and case studies that relate to the content of the course Question and answer section Use of internet and related IT infrastructure Use of video projector and whiteboard Use of calculators 		
	Greek Bibliography		
Bibliography	 Μπεληγιάννης, Α. (2015). Μια εισαγωγή στη βασική Άλγεβρα. Kallipos Open Academic Editions. Ανακτήθηκε από http://hdl.handle.net/11419/4847 Παπαϊωάννου, Σ., και Βογιατζή, Δ. (2015). Μαθηματικά Ι. Kallipos Open Academic Editions. Ανακτήθηκε από http://hdl.handle.net/11419/4551 Τουμπής, Σ., και Γκιτζένης, Σ. (2015). Λογισμός συναρτήσεων μιας μεταβλητής. Kallipos Open Academic Editions. Ανακτήθηκε από http://hdl.handle.net/11419/2177 Αδάμ, Μ., Χατζάρας, Ι., Ασημάκης, Ν. (2016). Μαθηματική Ανάλυση. Kallipos Open Academic Editions. Ανακτήθηκε από http://hdl.handle.net/11419/6356 English Bibliography 		





	 Karris, S. T. (2007). Mathematics for Business, Science, and Technology: With MATLAB and Spreadsheet Applications. 3rd Edition. Orchard Publications. EBSCOHost. 9781934404010 Adil H. M. (2015). Quantitative Methods for Business and Economics. London: Routledge. EBSCOhost. ISBN 9780765604583 Sunandra, R. (2020). A First Course in Mathematical Economics. Cambridge Scholars Publishing. EBSCOHost. 9781527547230 	
Assessment	 Attendance and Class Participation: 10% Intermediary Written Examination: 40% Final Written Examination: 50% 	
Language	Greek or English	