

Module Layout
BEC112 / Quantitative Methods in Economics I

Faculty	FEM	Economics and Management	
Programme of Study	BEC	Business Economics	
Module	BEC112	Quantitative Methods in Economics I	
Level of Study	Undergraduate	Graduate	
	√	Master	Doctoral
Language of Instruction	English		
Mode of Delivery	Distance		
Module Type	Required	Electives	
	√		
Number of Group Consulting Meetings	Total	Physical Presence	Online
	5	-	5
Number of Assignments	2		
Final Grade Calculation	Assignments	Weekly Activities	Final Exam
	30 %	10 %	60 %
Number of European Credit Transfer System (ECTS)	10		

Module Description

The BEC 112 module introduces students to the basic concepts of quantitative methods and their role in the analysis of economic data. It deals with fundamental topics of algebra such as equations, inequalities, equation solving, etc., as well as functions of one variable, their properties, and their differentiation. It also deals with fundamental topics of matrix and vector algebra, as well as determinants and inverse matrices, thus laying the foundation upon which the quantitative methods, addressed in the BEC112 module are built. Throughout the BEC112 module, emphasis is placed on the application of the relevant concepts and methods to typical problems in business and economics.

Pre-requisite Modules

None

Co-requisite Modules

None

Grading Scheme

Assessment Method	Percentage on Final Grade	Workload	
		Hours	ECTS
Study Week (13 weeks * ~12 hours of study) (2 weeks * ~18 hours of study)	0%	~180 - ~210	7
Weekly Interactive Activities	10 %	~25 - ~30	1
Assignment 1	15 %	~18 - ~25	1
Assignment 2	15 %	~18 - ~25	1
Final/Repeat Examination	60 %	3	-
Total	100 %	~250 - ~300	10

Grading Rules and Assessment methods

- Students are evaluated with 9, if they earn 90% of the possible grade, i.e. $90\% \times 10 = 9$, etc.
- **Passing rate**
 - 50% of the Assignments
 - 50% of the Interactive Activities
 - Students are allowed to participate in the final exam of a Module if they have overall earned the minimum grade ($\geq 50\%$) in both their Assignments and Interactive Activities
 - 50% of the Final Exam

If a student obtains a grade with decimal points, then the final grade is rounded to the nearest half unit. This module (Thematic Unit) is considered to have been successfully completed when the grade is equal to or higher than 5.0.