

**Module Layout**  
**BEC122 / Quantitative Methods in Economics II**

<b>Faculty</b>	FEM	School of Economics and Management	
<b>Programme of Study</b>	BEC	Business Economics	
<b>Module</b>	BEC122	Quantitative Methods in Economics II	
<b>Level of Study</b>	<b>Undergraduate</b>	<b>Graduate</b>	
	√	Master	Doctoral
<b>Language of Instruction</b>	English		
<b>Mode of Delivery</b>	Distance		
<b>Module Type</b>	<b>Required</b>	<b>Electives</b>	
√			
<b>Number of Group Consulting Meetings</b>	<b>Total</b>	<b>Physical Presence</b>	<b>Online</b>
	5	-	5
<b>Number of Assignments</b>	2		
<b>Final Grade Calculation</b>	<b>Assignments</b>	<b>Weekly Activities</b>	<b>Final Exam</b>
	30 %	10 %	60 %
<b>Number of European Credit Transfer System (ECTS)</b>	10		

**Module Description**

The BEC122 module contributes to the understanding of the quantitative nature of basic problems in business and economics and educates students in creating mathematical models to examine the interaction of economic variables. Topics addressed in this respect include functions of many variables, single-variable and multivariable optimization, integration, constrained optimization, and linear programming. Throughout the 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
<b>Study Week</b> (13 weeks * ~12 hours of study) (2 weeks * ~18 hours of study)	0%	~180 - ~210	7
<b>Weekly Interactive Activities</b>	10 %	~25 - ~30	1
<b>Assignment 1</b>	15 %	~18 - ~25	1
<b>Assignment 2</b>	15 %	~18 - ~25	1
<b>Final/Repeat Examination</b>	60 %	3	-
<b>Total</b>	100 %	~250 - ~300	10

#### Grading Rules and Assessment methods

- Students are evaluated with 9, if they earn 90% of the possible grade, i.e.  $90\% * 10 = 9$ , 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.