

Module title					Abbreviation
Computational Economics					12-CE-242-m01
Module coordinator				Module offered by	
holder	of the (hair of Public Finance	Faculty of Business Management and Economics		
ECTS	ECTS Method of grading		Only after succ. compl. of module(s)		
5	nume	rical grade			
Duration		Module level	Other prerequisites		
1 semester		undergraduate			
Contents					
 This module introduces students to the numerical implementation of economic models. It consists of three main parts: 1. The programming language FORTRAN 90 2. Numerical solution methods 3. Economic applications: The static general equilibrium model Topics in finance and risk management Life cycle model 					
- Overlapping generations model					
Intended learning outcomes					
 implement simple economic models on the computer using Fortran 90 using MonteCarlo techniques to find optimal portfolio structures and option prices quantify the risks of portfolios of banks and insurance companies simulate simple reforms of the tax and transfer system interpret the simulation results economically. 					
Courses (type, number of weekly contact hours, language — if other than German)					
P (2) Module taught in: German and/or English					
Method of assessment (type, scope, language – if other than German, examination offered – if not every semester, information on whether module is creditable for bonus)					
a) written examination (approx. 60 minutes) or b) written examination (approx. 60 minutes) and exercises (approx. 10 pages), (weighted 1:1) Language of assessment: German and/or English creditable for bonus					
Allocation of places					
Additional information					
Workload					
150 h					
Teaching cycle					
Referred to in LPO I (examination regulations for teaching-degree programmes)					
Module appears in					
Bachelor' degree (1 major) Business Information Systems (2024) Bachelor' degree (1 major) Economathematics (2024)					





Bachelor' degree (1 major) Business Management and Economics (2024) Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2024)

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