Zurich University of Applied Sciences



Valid for 2023.HS

Module Name: Mathematics 1									
Module Code	w.BA.XX.3Mathe1-FLEX.XX								
Module Description	Students know, understand, and have mastered the basic mathematical tools of analysis in the areas of sequences and series, financial mathematics, functions, and differential calculus. They will be able to use these tools to formalize, model, and solve quantitative business and economic problems.								
Program and Specialization	 Business Administration - Specialization in Banking and Finance (FLEX) Business Administration - Specialization in General Management (Flex) 								
Legal Framework	Academic Regulations BSc dated 29.01.2009, for the degree programs in Business Administration, International Management, Business Information Technology, Business Law, Business Law and Applied Law, first adopted on 12.05.2009								
Module Category	Module Type: Program Phase: Compulsory First-Year Studies								
ECTS	3								
Organizational Unit	W Institut für Risk & Insurance								
Module Coordinator	Wolfgang Sickinger (sici)								
Deputy Module Coordinator	Andreas Haldimann (hald)								
Prerequisite Knowledge	Knowledge of mathematics in accordance with the Swiss federal vocational baccalaureate (commercial).								
Contribution to Program Learning Goals (Affected by Module)	 § Professional Competence § Methodological Competence § Social Competence 								
	§ Self-Competence								
Contribution to Program Learning Objectives	 Professional Competence Knowing and Understanding Content of Theoretical and Practical Relevance Apply, Analyze, and Synthesize Content of Theoretical and Practical Relevance Evaluate Content of Theoretical and Practical Relevance Methodological Competence Problem-Solving & Critical Thinking Scientific Methodology Work Methods, Techniques, and Procedures Information Literacy Creativity & Innovation Social Competence Written Communication Oral Communication Teamwork & Conflict Management Intercultural Insight & Ability to Change Perspective 								
	 Self-Management & Self-Reflection Ethical & Social Responsibility Lograning & Change 								
Module Learning Objectives	3 Leanning & Change								
Module Learning Objectives	 Students § use different quantity notations and apply them according to the situation. § write down sequences and series in different notations and describe their properties. § can apply the summation formulas for finite or infinite arithmetic and geometric series. 								
	 se the concept of geometric series in the calculation of annuities. know the concept of functions and can explain important properties of functions, especially concavity, convexity, and monotonicity. can work formally and graphically with elementary types of functions (linear functions) 								
	polynomials, fractional rational functions, root functions, logarithm functions, and exponential functions).								
	results.								
	the concept of derivatives.								
	s can calculate derivatives of functions and interpret them as their local rate of change.								
	S can reproduce and apply the elementary derivation rules such as the factor and sum rule.								

		§ Sets, interv	vals, and sur	ns			
		§ Sequences and convergence					
		§ Series and	es and sum formulas for arithmetic and geometric sequences				
		§ Interest rate calculation and rent calculation					
		§ Introduction to functions					
		§ Elementary functions (polynomial, rational, and algebraic functions)					
		§ Exponential function and logarithm function					
		§ Economic functions and selected economic applications					
		§ Introductio	n to differen	tial calculus			
		§ Derivations and derivation rules					
Links	to other modules	The content of this module is linked to the following modules:					
		w.BA.XX.2AIM-flex.XX					
		w.BA.XX.2CFRM-flex.XX					
		w.BA.XX.2FIPT-flex.XX					
		w.BA.XX.2MAcc-flex.XX					
		w.BA.XX.2Ma	rk-flex.XX				
		w.BA.XX.2Mat	the2-flex.XX				
		w.BA.XX.2OP	-flex.XX				
		w.BA.XX.2QM	leth-flex.XX				
		w.BA.XX.2Sta	t-flex.XX				
Meth	ods of Instruction	§ Lecture			Social Setti	nas Usea	d:
		§ Interactive	Instruction		§ Individua	l Work	
		§ Application	Tasks		§ Pair Worl	k	
		§ Exercises			0		
		§ Literature F	Review				
Digita	I Resources	§ Teaching \	/ideos				
		§ Teaching N	Materials				
		§ Practice ar	nd Applicatio	n Exercises (with	Key)		
Туре	of Instruction	Classroom In	struction	Guided Self-Stu	dy	Autono	mous Self-Study
	Large Class		-		-		
	Small Class		21 h		37 h		
	Group Instruction		-		-		
	Practical Work						
			-		-		
	Seminar		-		-		
	Seminar Total		- - 21 h		- - 37 h		32 h
Perfo	Seminar Total rmance Assessment		- - 21 h		- - 37 h		32 h
Perfo	Seminar Total rmance Assessment End-of-module exam	Form	- - 21 h		- - 37 h	.)	32 h
Perfo	Seminar Total rmance Assessment End-of-module exam Written exam	Form Specified docu	- - 21 h		- - 37 h Length (min)	32 h Weighting
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