Zurich University of Applied Sciences



Valid for 2022.FS

Module Name: Statistics											
Module Code	w.BA.XX.2Stat-en.XX										
Module Description	Students understand the fundamental methodologies of descriptive and inductive statistics in the appraisal and analysis of statistical data and apply these methods to economic practice.										
Program and Specialization	Business Administration - Banking and Finance (PiE)										
Legal Framework	Academic Regulations BSc dated 29.01.2009, Appendix to the Academic Regulations for the degree programs in Business Administration, Business Information Technology, and Business Law, first adopted on 12.05.2009										
Module Category	Module Type:Program Phase:CompulsoryMain Study Period										
ECTS	6										
Organizational Unit	W Institut für Wealth & Asset Management										
Module Coordinator	Armin Bänziger-Aiba (banz)										
Deputy Module Coordinator	Oliver Bachmann (bacl)										
Prerequisite Knowledge	w.BA.XX.2Math1-en.XX     w.BA.XX.2Math2-en.XX										
Contribution to Program Learning Goals (Affected by Module)	<ul> <li>§ Professional Competence</li> <li>§ Methodological Competence</li> <li>§ Social Competence</li> <li>§ Self-Competence</li> </ul>										
Contribution to Program Learning Objectives	<ul> <li>Professional Competence</li> <li>Knowing and Understanding Content of Theoretical and Practical Relevance</li> <li>Apply, Analyze, and Synthesize Content of Theoretical and Practical Relevance</li> <li>Evaluate Content of Theoretical and Practical Relevance</li> <li>Methodological Competence</li> <li>Problem-Solving &amp; Critical Thinking</li> <li>Scientific Methodology</li> <li>Work Methods, Techniques, and Procedures</li> <li>Information Literacy</li> <li>Creativity &amp; Innovation</li> <li>Social Competence</li> <li>Oral Communication</li> <li>Teamwork &amp; Conflict Management</li> <li>Intercultural Insight &amp; Ability to Change Perspective</li> <li>Self-Management &amp; Self-Reflection</li> <li>Ethical &amp; Social Responsibility</li> <li>Learning &amp; Change</li> </ul>										
Module Learning Objectives	<ul> <li>Students</li> <li>understand the concept of statistical figure</li> <li>explain the key terminology of probability</li> <li>understand the significance of confidence</li> <li>describe linear relationships between two</li> <li>present data in appropriate diagrams.</li> <li>calculate figures from empirical and theory</li> <li>determine probabilities from elementary of</li> <li>apply case-related probability distribution</li> <li>construct confidence intervals for population</li> <li>test hypotheses in terms of a population of</li> <li>analyze data using statistical evaluations</li> <li>evaluate hypotheses using sample data.</li> <li>interpret results from linear simple regress</li> <li>learn to use the statistics software gretian</li> </ul>	res. theory. e intervals and hypothesis test procedures. o variables. retical distributions. chance events. is. tion mean values. mean value. sions. butonomously. the teaching material independently.									

Modu	ile Content	<ul> <li>Processing and presenting data</li> <li>Statistical measured values: location and dispersion measures</li> <li>Probability calculation (incl. elementary combinatorial analysis)</li> <li>Discrete probability distributions (esp. binomial distribution)</li> <li>Continuous probability distributions (esp. uniform and normal distribution; normal approximation of discrete distributions)</li> <li>Distribution of random sample statistics</li> <li>Estimation procedure (point and interval estimation, esp. for mean values)</li> <li>Hypothesis tests (esp. with regard to mean value of basic population)</li> <li>Relationships between variables: cross tabulation and dispersion diagrams; covariance and correlation; linear regression models with an independent variable</li> </ul>							
Links	to other modules	-							
Meth	ods of Instruction	<ul> <li>§ Lecture</li> <li>§ Interactive Instruction</li> <li>§ Exercises</li> </ul>				Social Settings Used: Individual Work			
Digita	al Resources	<ul> <li>§ Teaching Materials</li> <li>§ Multiple Choice Tests</li> </ul>							
Type of Instruction		Cl	assroom Instructio	ction Guided Self-Study		dy	Autonomous Self-Study		
	Large Class		2	28 h		-			
	Small Class	2		28 h		56 h			
	Group Instruction			-		-			
	Practical Work			-		-			
	Seminar			-		-			
	Total		5	56 h		56 h	h 68 h		
Performance Assessment									
	End-of-module exam Form		rm			Length (min.)		Weighting	
	Written exam	Specified documentat		ion	60			100,00 %	
	Permitted	Ap	proved calculator a	according to		With dictionary			
	Resources "Guidelines on Sur			lementary Materials"					
Others				Ass	sessment	Length (min	i.)	Weighting	
	-			-		-		-	
Classroom Attendance Mandatory Attendance Requirement			e: No	one					
Language of En Instruction/Examination			English						
Compulsory Reading New (Glo) 1292			Newbold, P., Carlson, W. & Thorne, B. (2019). Statistics for Business and Economics Global Edition). 9th edition. Upper Saddle River N.J: Pearson Prentice Hall. ISBN 978- 1292315034.						
Reco	mmended Reading	-							
Com	ments	-							