

Valid for 2023.HS

Module Name: Data	Analysis and Presentation in Excel and Python				
Module Code	w.BA.XX.WPM-DAP.XX				
Module Description	Students will acquire the knowledge necessary to deal with data preparation, analysis, and presentation tasks in Excel and Python. Excel: Special focus will be placed on array formulas and user-defined (lambda) functions. Python: We will mainly use the pandas library.				
Program and Specialization	 Business Administration - Specialization in Accounting, Controlling, Auditing Business Administration - Specialization in Banking and Finance Business Administration - Specialization in Banking and Finance (FLEX) Business Administration - Specialization in Banking and Finance (PiE) Business Administration - Specialization in Economics and Politics Business Administration - Specialization in Financial Management Business Administration - Specialization in General Management Business Administration - Specialization in General Management (Flex) Business Administration - Specialization in Marketing Business Administration - Specialization in Risk and Insurance International Management 				
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 ElectiveMain Study Period				
ECTS	3				
Organizational Unit	W Institut für Risk & Insurance				
Module Coordinator	Johannes Gerd Becker (bece)				
Deputy Module Coordinator	Jürg Portmann (port)				
Prerequisite Knowledge	Knowledge of basic descriptive statistics is helpful.				
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 Self-Competence Self-Management & Self-Reflection Ethical & Social Responsibility Learning & Change				
Module Learning Objectives	Students \$ clean datasets \$ explore and analyze data \$ express business logic using spreadsheet formulas and code \$ automate data analysis tasks in Python \$ present data using appropriate diagrams \$ can find appropriate resources for self-study and problem-solving				

Module Content	 Array formulas Sorting, filtering, mapping, grouping, and aggregating data Vectors and matrices LAMBDA functions Data presentation and diagrams Basics of macros and VBA Working with Jupyter notebooks Reading and writing data Python basics Working with dataframes in pandas Data presentation in Python 					
Links to other modules	The content of this module is linked to the following modules: w.BA.XX.1QAB-IM.XX w.BA.XX.2Stat.XX w.BA.XX.3DSTI-RI.XX w.BA.XX.3FDS-BF.XX					
Methods of Instruction	-	Social Settings Used: § Individual Work § Pair Work				
Digital Resources	§ Teaching Videos§ Spreadsheets§ Jupyter notebooks					
Type of Instruction	Classroom Instruction	Guided Self-	Study	Auton	omous Self-Study	
Large Class	28 h		14 h			
Small Class	-		-			
Group Instruction	-					
Practical Work	_		-			
Seminar	_					
Total	28 h		14 h	1	48	
Performance Assessment					-	
End-of-module exam	Form		Length (min.)		Weighting	
-	_				_	
Permitted Resources	-					
Others	Δο	sessment	Length (mi	n.)	Weighting	
Mid-semester exam		ade	90	,	40.00 %	
End-semester exam	Grade		90		60.00 %	
Classroom Attendance	Mandatory Attendance: N		30		1 00.00 /0	
Requirement	mandatory / ttoridarioc. IV	J				
Language of Instruction/Examination	English					
Compulsory Reading	-					
Recommended Reading	-					
Comments	A relatively recent version online or older Office vers Both exams consist largel	ions are not su	fficient.	·	•	