

2019.HS

Module Name: Quantitative Methods	
Module Code	w.MA.XX.QNM-PiE.19HS
Module Description	This Master's program aims to provide a substantial increase in competence in the field of application-oriented research. This competence should enable graduates to classify scientific findings and make them applicable to practical issues, solve practical problems using scientific methods, and generally rely on a proven systematic-analytical approach to thinking and making decisions in the face of practical challenges.
Program and Specialization	Banking and Finance (PiE)
Legal Framework	Academic Regulations MSc in Banking and Finance dated 29.09.2011, Appendix to the Academic Regulations for the degree program in Banking and Finance, first adopted on 28.08.2012
Module Category	Module Type: Compulsory
ECTS	6
Organizational Unit	W Institut für Wealth & Asset Management
Module Coordinator	Oliver Bachmann (bacl)
Deputy Module Coordinator	Ruben Seiberlich (seib)
Prerequisite Knowledge	Students need a basic knowledge of mathematics and statistics at BSc level as well as knowledge and experience in researching and processing scientific literature and in writing a scientific paper.
Contribution to Program Learning Goals (Affected by Module)	<ul style="list-style-type: none"> § Professional Competence § Methodological Competence § Social Competence § Self-Competence
Contribution to Program Learning Objectives	Professional Competence <ul style="list-style-type: none"> § 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 <ul style="list-style-type: none"> § Problem-Solving & Critical Thinking § Scientific Methodology § Work Methods, Techniques, and Procedures § Information Literacy § Creativity & Innovation Social Competence <ul style="list-style-type: none"> § Written Communication § Oral Communication § Teamwork & Conflict Management § Intercultural Insight & Ability to Change Perspective Self-Competence <ul style="list-style-type: none"> § Self-Management & Self-Reflection § Ethical & Social Responsibility § Learning & Change
Module Learning Objectives	Students... <ul style="list-style-type: none"> § can plan and implement research on application-oriented topics using appropriate methods and common tools. § can, whenever required, familiarize themselves independently with special methods and resources they have not used before.
Module Content	<ul style="list-style-type: none"> § Statistics § Linear regression analysis with cross-sectional data § Analysis of time-series data
Links to other modules	The content of this module is linked to the following modules: w.MA.XX.AQM-PiE.19HS w.MA.XX.OBFC-PiE.19HS
Methods of Instruction	<ul style="list-style-type: none"> § Lecture § Interactive Instruction § Application Tasks § Case Studies § Exercises § Problem-Oriented Teaching § Literature Review
	Social Settings Used: Individual Work

Digital Resources	§ Practice and Application Exercises (with Key) § Case Studies (with Key) § Multiple Choice Tests		
Type of Instruction	Classroom Instruction	Guided Self-Study	Autonomous Self-Study
Lecture	72 h	-	
Excercise	-	68 h	
Project Work	-	-	
Seminar	-	-	
Total	72 h	68 h	
Performance Assessment			
End-of-module exam	Form	Length (min.)	Weighting
Written exam	Open book	60	100.00 %
Permitted Resources	Free choice of calculator	With dictionary	
Others	Assessment	Length (min.)	Weighting
-	-	-	-
Students are not allowed to revise and resubmit performance assessment tasks.			
Classroom Attendance Requirement	-		
Language of Instruction/Examination	English		
Compulsory Reading	Newbold, P., Carlsen, W. & Thorne, B. (212). Statistics for Business and Economics (Global Edition). 8th edition. Prentice Hall. ISBN 978-0273767060.		
Recommended Reading	-		
Comments	-		