

Valid for 2023.HS

| Module Name: Quan | titative Methods | | | | | |
|---|---|--|--|--|--|--|
| Module Code | w.MA.XX.QNM-PiE.19HS | | | | | |
| Module Description | This module, which is part of the Master's program in Banking and Finance, focuses on key statistical analysis and empirical research topics. Students will develop a strong foundation in applying statistical techniques to practical issues and enhance their problem-solving abilities using scientific methods. The module covers various essential concepts and methods, including hypothesis and non-parametric tests, linear and logistic regression models, statistical inference, diagnostics, and time series analysis.By completing this module, students will acquire the necessary skills to interpret scientific findings, apply statistical methods to real-world problems, and approach practical challenges systematically and analytically. These skills will empower graduates to contribute effectively to applied research and confidently navigate decision-making processes in various professional settings. | | | | | |
| 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 | Marc Weibel (wmar) | | | | | |
| 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 | § Professional Competence | | | | | |
| Learning Goals (Affected by | § Methodological Competence | | | | | |
| Module) | § Social Competence § Self-Competence | | | | | |
| Contribution to Program Learning Objectives Module 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-Competence Self-Management & Self-Reflection Ethical & Social Responsibility Learning & Change Students | | | | | |
| | s can plan and implement research on application-oriented topics using appropriate methods and common tools. s can, whenever required, familiarize themselves independently with special methods and resources they have not used before. | | | | | |
| Module Content | Statistics Non-parametric tests Linear regression analysis Logistic regression Diagnostics Time-series analysis | | | | | |
| Links to other modules | The content of this module is linked to the following modules: w.MA.XX.AQM-PiE.19HS | | | | | |
| | This was a spirit in the same | | | | | |

| | w.MA.XX.OBFC-PiE.19HS | | | | | | | | | |
|--|---|---|------|-------------------|---------------------------------------|-----------------------|-----------|--|--|--|
| Methods of Instruction Digital Resources | | § Lecture § Interactive Instruction § Application Tasks § Case Studies § Exercises § Problem-Oriented Teaching § Literature Review § Practice and Application Exercises (with | | | Social Settings Used: Individual Work | | | | | |
| | | § Case Studies (with Key) § Multiple Choice Tests | | | | | | | | |
| Type | of Instruction | Classroom Instruction | on | Guided Self-Study | | Autonomous Self-Study | | | | |
| | Lecture | 7 | '2 h | | - | | | | | |
| | Excercise | | _ | | 68 h | | | | | |
| | Project Work | | _ | | _ | | | | | |
| | Seminar | | _ | | _ | | | | | |
| | Total | 7 | '2 h | | 68 h | | 40 h | | | |
| Perfo | rmance Assessment | | | | | | | | | |
| | End-of-module exam Form | | | | Length (min.) | | Weighting | | | |
| | Written exam | ten exam Open book | | | 60 | | 100,00 % | | | |
| | Permitted | Free choice of calcula | | With dictionary | | | | | | |
| | Resources | , i | | | | | | | | |
| | | | | | | | | | | |
| | Others | | | sessment | Length (min.) | | Weighting | | | |
| | Participation in Online | | | | 240 | | - | | | |
| Students are not allowed to revise and resubmit performance assessment tasks. | | | | | | | | | | |
| 0.000 | Classroom Attendance Mandatory Attendance: None Requirement | | | | | | | | | |
| Lang | anguage of English | | | | | | | | | |
| | oulsory Reading | | | | | | | | | |
| Recommended Reading - | | | | | | | | | | |
| Students can earn points throughout the semester which can be credited toward their end-of-module exam. Various tasks and projects are offered during the course of this module, enabling students to enhance their understanding and application of quantitative methods continuously. The accumulated points contribute to the overall module assessment, encouraging students to actively participate in their learning progress and track their performance throughout the semester. | | | | | | | | | | |