

Valid from 2025.FS

<b>Module description: Quantitative Investment Strategies</b>	
<b>Module Code</b>	w.MA.XX.QIS.19HS
<b>ECTS Credits</b>	6
<b>Language of Instruction/Examination</b>	English
<b>Module Description</b>	Advanced analyses of quantitative investment strategies, hedge funds, alternative investments, futures markets, commodities, structured products, and derivatives including the link to the macro-environment and business cycles.
<b>Organizational Unit</b>	Institut für Wealth & Asset Management
<b>Module Coordinator</b>	Peter Schwendner
<b>Deputy Module Coordinator</b>	Jan-Alexander Posth
<b>Program and Specialization</b>	<ul style="list-style-type: none"> <li>Banking and Finance</li> </ul>
<b>Legal Framework</b>	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
<b>Module Category</b>	<b>Module Type</b> Compulsory
<b>Prerequisite Knowledge</b>	Quantitative methods, active investment management, financial instruments and portfolio theory, statistics, investments.
<b>Contribution to Program Learning Objectives (by the concerned Module)</b>	<ul style="list-style-type: none"> <li>Professional Competence</li> <li>Methodological Competence</li> <li>Social Competence</li> </ul>
<b>Contribution to Program Learning Objectives</b>	<p><b>Professional Competence</b></p> <ul style="list-style-type: none"> <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> </ul> <p><b>Methodological Competence</b></p> <ul style="list-style-type: none"> <li>Problem-Solving &amp; Critical Thinking</li> <li>Scientific Methodology</li> <li>Information Literacy</li> <li>Creativity &amp; Innovation</li> </ul> <p><b>Social Competence</b></p> <ul style="list-style-type: none"> <li>Written Communication</li> <li>Oral Communication</li> <li>Teamwork &amp; Conflict Management</li> <li>Intercultural Insight &amp; Ability to Change Perspective</li> </ul>
<b>Module Learning Objectives</b>	<p>Students...</p> <ul style="list-style-type: none"> <li>can evaluate advanced quantitative investment strategies, alternative investment and factor-based strategies, apply all the relevant methodologies, and set up their own investment processes.</li> <li>can evaluate commodities and global futures markets and apply all necessary methodologies.</li> <li>can evaluate the connection between the macro-environment, business cycles, and financial markets.</li> <li>can evaluate structured derivative products and apply hedging strategies.</li> </ul>
<b>Module Content</b>	<ul style="list-style-type: none"> <li>Quantitative investment strategies, alternative investments, and hedge funds</li> <li>Commodities and advanced quant strategies. Relationship between macro-environment, business cycles, and investment decisions.</li> </ul>

## Module description: Quantitative Investment Strategies

Links to other modules	This module is linked to the following modules: <ul style="list-style-type: none"><li>• w.MA.XX.IN.19HS</li><li>• w.MA.XX.ILIN.19HS</li><li>• w.MA.XX.SIN.19HS</li></ul>																																	
Digital Learning Resources	<ul style="list-style-type: none"><li>• Practice and Application Exercises (with Key)</li><li>• Case Studies (with Key)</li></ul>																																	
Methods of Instruction	<ul style="list-style-type: none"><li>• Exercises</li><li>• Literature Review</li><li>• Case Studies</li><li>• Lecture</li></ul>		Social Settings Used: <ul style="list-style-type: none"><li>• Pair Work</li><li>• Individual Work</li></ul>																															
Type of Instruction	<table><tr><td></td><td>Classroom Instruction</td><td>Guided Self-Study</td><td colspan="2">Autonomous Self-Study</td></tr><tr><td>Lecture</td><td>42 h</td><td>-</td><td colspan="2"></td></tr><tr><td>Excercise</td><td>30 h</td><td>-</td><td colspan="2"></td></tr><tr><td>Project Work</td><td>-</td><td>-</td><td colspan="2"></td></tr><tr><td>Seminar</td><td>-</td><td>-</td><td colspan="2"></td></tr><tr><td>Total</td><td>72 h</td><td>0 h</td><td colspan="2">108 h</td></tr></table>					Classroom Instruction	Guided Self-Study	Autonomous Self-Study		Lecture	42 h	-			Excercise	30 h	-			Project Work	-	-			Seminar	-	-			Total	72 h	0 h	108 h	
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Performance Assessment	<table><tr><td colspan="2">End-of-module exam</td><td>Form</td><td>Length (min.)</td><td>Weighting</td></tr><tr><td colspan="2">Written exam</td><td>closed book</td><td>60</td><td>90.00</td></tr><tr><td colspan="2">Permitted Resources</td><td>Spec. calculator acc. to leaflet "Utilities"</td><td colspan="2">With dictionary</td></tr><tr><td colspan="5"></td></tr><tr><td>Others</td><td>Assessment</td><td>Format</td><td>Length (min.)</td><td>Weighting</td></tr><tr><td>Refinitiv Certificate</td><td>Grade</td><td>Einzelarbeit</td><td>0</td><td>10.00</td></tr></table>				End-of-module exam		Form	Length (min.)	Weighting	Written exam		closed book	60	90.00	Permitted Resources		Spec. calculator acc. to leaflet "Utilities"	With dictionary							Others	Assessment	Format	Length (min.)	Weighting	Refinitiv Certificate	Grade	Einzelarbeit	0	10.00
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Classroom Attendance Requirement	None																																	
Compulsory Reading	<ul style="list-style-type: none"><li>• Granger, N. &amp; Harvey, C. &amp; Baz, J. (2015). Dissecting Investment Strategies in the Cross Section and Time Series. <a href="https://ssrn.com/abstract=2695101">https://ssrn.com/abstract=2695101</a>, -.</li><li>• Pedersen, L. (2015). Efficiently Inefficient: How Smart Money Invests and Market Prices Are Determined. Princeton. ISBN 978-0691166193. -.</li></ul>																																	
Recommended Reading																																		
Comments																																		