

## Valid for 2024.FS

Module Name: Quan	titative Investment Strategies					
Module Code	w.MA.XX.QIS-PiE.19HS					
Module Description	Advanced analyses of quantitative investment strategies, hedge funds, alternative investments, futures markets, commodities, structured products, derivatives including the link to the macro-environment and business cycles.					
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	Peter Schwendner (scwp)					
Deputy Module Coordinator	Jan-Alexander Posth (posh)					
Prerequisite Knowledge	Quantitative methods, active investment management, financial instruments and portfolion theory, statistics, investments.					
Contribution to Program Learning Goals (Affected by Module)	<ul> <li>Professional Competence</li> <li>Methodological Competence</li> <li>Social Competence</li> </ul>					
Contribution to Program Learning Objectives  Module Learning Objectives	their own investment processes.  § can evaluate commodities and global fut methodologies.	of Theoretical and Practical Relevance ctical Relevance  Perspective  stment strategies, alternative investment apply all relevant methodologies, and set up				
Module Content	<ul> <li>§ can evaluate structured derivative products and apply hedging strategies.</li> <li>§ Quantitative investment strategies, alternative investments, and hedge funds</li> <li>§ Commodities and advanced quant strategies. Relationship between macroenvironment, business cycles, and investment decisions.</li> <li>§ Derivatives: Forwards and futures; puts and calls; structured products; Black/Scholes, Binomial trees; arbitrage, replication and risk neutrality; sensitivities (greeks); option strategies and volatility trading</li> <li>§ Investment manager due diligence</li> </ul>					
Links to other modules	The content of this module is linked to the following modules: w.MA.XX.ILIN.19HS w.MA.XX.IN-PiE.19HS w.MA.XX.SIN-PiE.19HS					
Methods of Instruction	<ul><li>§ Lecture</li><li>§ Case Studies</li><li>§ Exercises</li><li>§ Literature Review</li></ul>	Social Settings Used: § Individual Work § Pair Work				
Digital Resources	<ul> <li>Teaching Materials</li> <li>Case Studies (with Key)</li> <li>FinanceLab / Rotman Interactive Trader Simulations</li> </ul>					

Type of Instruction		Classroom Instruction	Guided Self-Study		Autonomous Self-Study			
Турс	Lecture	42 h	Odiaca Sell-Sta	- -	Autorioi	nous den-olday		
	Excercise	30 h						
	Project Work	30 11		_				
	Seminar	-						
	= = : : : : : : : : : : : : : : : : : :	-				400 !		
	Total	72 h		0 h		108 h		
Performance Assessment								
	End-of-module exam	Form	Length (mir		1.)	Weighting		
	Written exam	Closed book	60			90.00%		
	Permitted	Approved calculator accor	ding to With dictiona		ary			
	Resources	"Guidelines on Supplemer	ntary Materials"					
	Others	Ass	sessment	Length (min	1.)	Weighting		
	Refinitiv Certificate	Gra	Grade -			10.00%		
	Students are not allowed to revise and resubmit performance assessment tasks.							
Class	Classroom Attendance Mandatory Attendance: None							
Requ	irement	•						
Lang	nguage of English							
Instru	struction/Examination							
Com	compulsory Reading § Pedersen, L. (2015). Efficiently Inefficient: How Smart Money Invests and Market							
	Prices Are Determined. Princeton. ISBN 978-0691166193.							
	§ Baz, J., Granger, N. & Harvey, C. (2015). Dissecting Investment Strategies in the							
		Cross Section and Time Series. https://ssrn.com/abstract=2695101,						
Reco	mmended Reading	-						
Comi	ments	-						