Professor	Prof. Dr. Bernhard Nietert
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ECTS	3
Examination	Final exam together with Asset Pricing Theory (120 minutes)
Course description and learning objec- tives	The lecture deals with the general theory of risk and decision making under risk and, in particular, with portfolio selection theory.
Course outline	<ol> <li>Introduction         <ol> <li>Introduction to Decision Theory under Risk</li> <li>Basics of decision theory</li> <li>Characterization of risk</li> <li>Characterization of risk</li> <li>Sasics of the solution of decision problems under risk</li> <li>Canomo model of preferences in Accounting and Finance</li> </ol> </li> <li>Traditional Portfolio Theory         <ol> <li>General characteristics of optimal portfolios</li> <li>I.1 Risk aversion and demand for risky assets</li> <li>Structure of optimal portfolio holdings</li> <li>Specific characteristics of optimal portfolios: the exact size of portfolio holdings</li> <li>Specific characteristics of optimal portfolios: the exact size of portfolio holdings</li> <li>L.1 µ-σ-efficient portfolios of risky assets (Markowitz diversification)</li> <li>Summary on µ-σ-efficient portfolios</li> <li>Kadendum: determination of portfolio weights</li> <li>Economic consequences of stochastically linearly dependent assets</li> <li>Portfolio theory with constraints on portfolio holdings</li> <li>Portfolio theory with constraints on portfolio holdings</li> <li>Portfolio theory with different information: special case of informational y inefficient markets</li> <li>Simplifying the computation of the structural component</li> <li>Somplifying the computation of the volume component</li> <li>Advanced Portfolio selection with nomarketable income</li> <li>Portfolio theory with more than one source of risk</li> <li>Portfolio theory with more than one source of risk</li> <li>Portfolio theory with more than one source of risk</li> <li>Portfolio theory with portfolio selection</li> <li>ESG Investing</li> <li>Portfolio selection with nomarketable in</li></ol></li></ol>

	4 Asset Pricing
	4.1 Asset pricing in a Markowitz Tobin framework
	4.1.1 Subjective marginal prices
	4.1.2 Asset prices in market equilibrium: Capital Asset Pricing Model (CAPM)
	4.1.3 Side aspect of the asset pricing results: variance decomposition
	4.2 Asset pricing in a Markowitz framework: zero Beta version of pricing formulas
	4.3 Asset pricing with a second source of risk
	4.3.1 CAPM with nonmarketable income
	4.3.2 International CAPM
	4.4 ESG CAPM
	4.4.1 Mildly segmented market
	4.4.2 ESG preferences
	4.5 Performance measurement
	4.5.1 General performance measure
	4.5.2 Simplified, i.e., "classical" performance measures
Selected references	- Lecture notes
	<ul> <li>Copeland, T. W., Weston, J. F., and Shastri, K. (2005): "Financial Theory and Corporate Policy", 4<sup>th</sup> edition, Boston et al. 2005, pp. 52-59.</li> </ul>
	<ul> <li>Elton, E. J., Gruber, M. J., Brown, S. J., and Goetzmann, W. N. (2003): "Modern Portfolio Theory and Investment Analysis", 6<sup>th</sup> edition, Hoboken 2003.</li> </ul>