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ECTS 3	
Examination Final exam together with Asset Pricing Theory (120 minutes)	
Course description The lecture deals with the general theory of risk and decision ma	king
and learning objec-	
tives	
Introduction	
Course outline 1 Introduction	
1.1 Institutional Background	
1.2 Brief Introduction to Decision Theory under Risk	
1.2.1 Basics of decision theory	
1.2.2 Characterization of risk	
1.2.3 Basics of the solution of decision problems under risk	
1.2.4 Risk preferences in the context of expected utility maxin tion	iza-
1.2.5 Common model of preferences in Accounting and Finance	
2 Portfolio Theory	
2.1 General characteristics of optimal portfolios	
2.1.1 Risk aversion and demand for risky assets	
2.1.2 Structure of optimal portfolio holdings	
2.2 Concrete portfolio composition: the exact size of portfolio h	old-
2.2.1 u.g.efficient nortfolios of risky assets (Markowitz diversi	ica-
tion)	icu
<ul> <li>2.2.2 μ-σ-efficient portfolios of risky and riskless assets (Markov Tobin diversification)</li> </ul>	ʻitz
2.2.3 Summary on $\mu$ - $\sigma$ -efficient portfolios	
2.2.4 Addendum: determination of portfolio weights	
2.3 Excursus: invertibility of the variance/covariance matrix	
2.3.1 Definition of invertibility	
2.3.2 Economic consequences of stochastically linearly dependent	lent
assets	
3 Advanced Portfolio Theory	
3.1 Portfolio theory with more than one source of risk	
3.1.1 Portfolio selection with nonmarketable income	
3.1.2 International diversification	
3.1.3 Black/Litterman model: integration estimation risk and sub	jec-
tive views into portfolio selection	
3.2 Portfolio theory on imperfect markets	
3.2.1 Portfolio theory with constraints on portfolio holdings	
3.2.2 Portfolio theory with different information: special case of formationally inefficient markets	f in-
3.3 Simplification of portfolio selection to keep the amount of da	a in

	check
	3.3.1 Simplifying the computation of the structural component
	3.3.2 Simplifying the computation of the volume component
	3.4 Behavioral Finance
	3.4.1 Introduction to the ideas of Behavioral Finance
	3.4.2 Consequences of Behavioral Finance to portfolio selection
	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 pric- ing formulas
	4.2.1 Excursus: zero Beta portfolios
	4.2.2 Asset pricing with zero Beta portfolios
	4.3 Asset pricing with a second source of risk
	4.3.1 CAPM with nonmarketable income
	4.3.3 International CAPM
	4.4 Performance measurement
	4.4.1 General performance measure
	4.4.2 Simplified, i.e., "classical" performance measures
Selected Refe-	– Lecture notes
rences	<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> <li>Ingersoll, J. E., Jr. (1987): "Theory of Financial Decision Making". To-</li> </ul>
	towa 1987.