Course Schedule

Help

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Week 1	Course Introduction
	Computing Asset Returns
	Getting financial data from
	Yahoo!
	4. Excel calculations
Weeks 2,	1. Univariate random variables and
3 and 4	distributions
	2. Characteristics of distributions
	3. The normal distribution
	Linear function of random variables
	5. Quantiles of a distribution,
	Value-at-Risk
	6. Bivariate distributions
	7. Covariance, correlation,
	autocorrelation
	8. Linear combinations of random
	variables
	9. Time Series concepts
	10. Matrix algebra
Weeks 5,	Descriptive statistics:
6 and 7	histograms, sample means,
	variances, covariances and
	autocorrelations
	2. The constant expected return
	model.
	3. Monte Carlo simulation
	4. Standard errors of estimates
	5. Confidence intervals
	6. Bootstrapping standard errors
	and confidence intervals
	7. Hypothesis testing
	8. Midterm Exam
Weeks 8,	Introduction to portfolio theory
9 and 10	'
	'
	3. Markowitz algorithm
	Markowitz algorithm Markowitz Algorithm using the
	3. Markowitz algorithm4. Markowitz Algorithm using the solver and matrix algebra

- 5. Risk budgeting
- 6. Statistical Analysis of Efficient Portfolios
- 7. Beta as a measure of portfolio risk
- 8. The Single Index Model
- Estimating the Single Index Model using simple linear regression
- 10. Final Exam

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