Albert-Ludwigs-Universität Freiburg

Department of Quantitative Finance

Portfolio Management

Outline:

The lecture provides an introduction to security and portfolio analysis, the problem of optimal allocation of assets into a portfolio, as well as the evaluation of investments. Topics which will be discussed in the seminar include:

- classical mean-variance portfolio theory (risk and return, efficient frontier)
- determination of equililbrum security returns and prices (CAPM, arbitrage pricing models, empirical tests)
- analysis and valuation of securities (such as stocks, bonds, options, etc.)
- evaluation of portfolio performance (performance measurement, diversification, active portfolio management)

The lecture, which will be held in English, is offered for students in the Finance profile of the M.Sc. Economics, but is also open to students of M.Sc. Volkswirtschaftslehre and M.Sc. Mathematics, especially to those of the profile "Finanzmathematik".

Instructor:

Dr. Christoph Gerhart, Department of Quantitative Finance, University of Freiburg

Course Schedule:

The **lecture** will take place on a weekly basis on **Thursdays from 10-12 am** in the lecture hall **HS 1098 KG I**. The first meeting will take place on Thursday, April 19th, 2018.

The **tutorial** will take place every **Wednesday from 10-12 am** in room **3044 KG III**. The first meeting will be on Wednesday, April 25th, 2018.

ECTS (credit points):

6 ECTS points based on a 120 minutes examination.

Main References:

Bodie, Z., Kane, A., Marcus, A.J. (2011): *Investments and Portfolio Management*. 9th ed., McGraw-Hill.
Elton, E.J., Gruber, M.J., Brown, S.J., and Goetzmann, W.N. (2011): *Modern Portfolio Theory and Investment Analysis*, 8th ed., Wiley.
Hull, J. (2011). *Options, Futures and other Derivatives*, 8th ed., Prentice Hall.
Spremann, K. (2008): *Portfoliomanagement*, 4th ed., Oldenbourg Verlag.

Additional Information: http://www.finance.uni-freiburg.de/studium-und-lehre-en