

# Announcement WS 2023/2024

## Lecture in Mathematical Finance

### Discrete Time Finance (FIM)

Prof. Dr. Matthias Scherer

**Area: / Modulnr.:** Mathematical Finance / MA9972

**Course Structure:** Lecture: 2h      Exercises: 2h

**Content:** Single-Period Financial Markets, Multi-Period Financial Markets, Absence of Arbitrage and Completeness, Binomial or Cox-Ross-Rubinstein Model, Pricing of Contingent Claims

**Audience:** MSc Finance and Information Management

**Literature:** **S.R. Pliska (2000):** "Introduction to Mathematical Finance: Discrete Time Models", Blackwell Publishers Inc.  
**S.E. Shreve (2004):** "Stochastic calculus for Finance I: The Binomial Asset Pricing Model", Springer Finance  
**N.H. Bingham and R. Kiesel (2004):** "Risk-Neutral Valuation: Pricing and Hedging Financial Derivatives", Springer Finance  
**J.C. Hull (2015):** "Options, Futures and other Derivatives", 9<sup>th</sup> Edition, Pearson Studium  
**P. Wilmott (2001):** "Quantitative Finance", John Wiley & Sons, 2001

**Certificate:** Exam, 6 CP

**Location/ Time:** TBA

**Exercises:** TBA