

# Announcement WiSe 2020/21

## Lecture in Mathematical Finance

### Discrete Time Finance

PD Dr. Aleksey Min

<b>Area: / Modulnr.:</b>	Mathematical Finance/ MA 3701
<b>Course Structure:</b>	Lecture: 2h Exercises: 1h Programming: 1h
<b>Content:</b>	Single-Period Financial Markets, Multi-Period Financial Markets, Absence of Arbitrage and Completeness, The Binomial or Cox-Ross-Rubinstein Model, Pricing of Contingent Claims
<b>Audience:</b>	BSc Mathematik, MSc Mathematik, Mathematical Finance and Actuarial Science, OR
<b>Prerequisite:</b>	MA1401 (Introduction to Probability Theory), MA2409 (Probability Theory)
<b>Literature:</b>	<b>S.R. Pliska (2000):</b> Introduction to Mathematical Finance: Discrete Time Models, Blackwell Publishers Inc. <b>S.E. Shreve (2004):</b> Stochastic calculus for Finance I: The Binomial Asset Pricing Model, Springer Finance <b>N.H. Bingham and R. Kiesel (2004):</b> Risk-Neutral Valuation: Pricing and Hedging Financial Derivatives, Springer Finance <b>J.C. Hull (2006):</b> Optionen, Futures und andere Derivative, Pearson Studium <b>J.C. Hull (2006):</b> Options, Futures and Other Derivatives, Prentice-Hall <b>P. Wilmott (2001):</b> Quantitative Finance, John Wiley & Sons
<b>Certificate:</b>	Exam, 6 CP
<b>Location/ Time:</b>	see TUMonline

