GEORG-AUGUST-UNIVERSITÄT GÖTTINGEN

Courses taught in English at the Faculty of Economic Sciences

Module No.: M.WIWI-VWL.0113 **Title: Financial Econometrics**	**Credits:** 6 C
Course Content: Students acquire and apply important econometric techniques in the area of international finance, macroeconomics, and financial. The focus will be on relevant applications rather than on statistical theory. Special emphasis will be placed on the development of programming skills in MATLAB. Students learn (i) how to work with real world data, (ii) how to set-up an econometric model in order to answer specific research questions, and (iii) how to present the results. **Lecture:** a) Univariate time series modeling: ARMA models, Box-Jenkins approach, forecasting b) Multivariate models: simultaneous equations, Vector ARMA models c) Non-stationary time-series: unit roots, cointegration d) Modeling volatility: ARCH and GARCH models **Programming class:** a) Introduction to MATLAB b) Working on programming exercises c) Working on empirical project	**Course Type:** Lecture (2 WLH) + programming class (2 WLH)

Recommended Prerequisites: Econometrics I	**Exam:** Written examination (60 minutes), practical examination and presentation (approx. 45 minutes)
Recommended Semester: 3-4	**Cycle:** every winter semester
Literature: tba	**Lecturer:** Prof. Dr. Tino Berger