Georg-August-Universität Göttingen		6 C 4 WLH
Module M.WIWI-QMW.0012: Multivariate	Time Series Analysis	
 Learning outcome, core skills: The students: learn concepts and techniques related to the ar and the forecasting thereof. learn to characterize the dynamic interrelationsl dynamic systems, learn to relate economic models with restriction counterpart, learn how to analyse multivariate time series us packages and to interpret the results obtained. 	hip between the variables of s implied by its empirical	Workload: Attendance time: 56 h Self-study time: 124 h
Course: M.WIWI-QMW.0012.Lec Multivariate Time Series Analysis (Lecture) <i>Contents</i> : Vector Autoregressive and Vector Moving Average representations Model selection and estimation, Unit roots in vector processes, Vector autoregressive vs. vector error correction modeling, structural vectorautoregressions, Impulse response analysis, forecasting, forecast error variance decomposition		2 WLH
Course: M.WIWI-QMW.0012.Tut Multivariate Time Series Analysis (Tutorial) <i>Contents</i> : Practical and theoretical exercises covering the content of the lecture. Implementation of multivariate time series models and estimation in common statistical software (e.g. R or Matlab). Interpretation of estimation results.		2 WLH
Examination: Written examination (90 minutes) M.WIWI-QMW.0012.Mp: Multivariate Time Series Analysis		6 C
Examination requirements: The students show their ability to analyze systems of time series using specific statistical techniques, can derive and interpret properties of stochastic models for time series, and can decide on appropriate models for given data. The students are able to implement time series analyses using statistical software and to interpret the corresponding results. The exam covers contents of both the lecture and the exercises.		
Admission requirements: none	Recommended previous knowledge: Basic knowledgin in statistics M.WIWI-QMW.0004 Econometrics I M.WIWI-QMW.0009 Introduction to Time Series Analysis	
Language: English	Person responsible for module: Prof. Dr. Helmut Herwartz	
Course frequency: once a year	Duration: 1 semester[s]	

Number of repeat examinations permitted:	Recommended semester:
twice	3 - 4