Course Descriptions None 2026-2027

Course Title	Time Series Modelling
Course Code	EBC2086
ECTS Credits	6,5
Assessment	Whole/Half Grades

Period

Period	Start	End	Mon	Tue	Wed	Thu	Fri
1	31-8-2026	16-10-2026		X		X	

Level	Intermediate
Coordinator	Alain Hecq For more information:a.hecq@maastrichtuniversity.nl
Language of instruction	English
Goals	Enable economic students to perform an empirical analysis of time series using the correct tools. Introduction to quantitative methods and econometrics.
Description	The objective of this course is to give students in the Bachelors program of Economics an introduction to modelling univariate and multivariate time series in economics. The topics covered will include modelling non-stationary time series, Granger causality, co-integration, ARIMA, seasonality, ARCH, Unit roots.
Literature	Diebold, F. (2017), Econometrics (available online). Diebold, F. (2017), Forecasting (available online).
Prerequisites	* The Quantitative Methods 3 course for EC, or one of the courses Empirical Econometrics for Business, Empirical Econometrics or Forecasting for international business. Assuming a basic understanding of multiple regression analysis (such as with an introductory course on econometric/quantitative methods), this accessible introduction to time series analysis shows how to develop models capable of forecasting, interpreting and testing hypothesis concerning economic data using well established as well as modern techniques. Based on real-world data and with the help of interactive software such as Eviews we will study and apply key concepts such as ARIMA, unit roots, causality, cointegration, deterministic and stochastic, trends, volatility, outliers, structural breaks, seasonality, vector autoregressive models. * An advanced level of English.
Transitional Regulations	<ul class="trcohorts"> - Bachelor Economics and Business Economics - Economics and Management of Information [2024-2025 or earlier] - Bachelor Economics and Business Economics - International Business Economics - Major Accounting [2024-2025 or earlier] - Bachelor Economics and Business Economics - International Business Economics - Major Finance [2024-2025 or earlier] - Bachelor Economics and Business Economics - International Business Economics - Major Information Management [2024-2025 or earlier] - Bachelor Economics and Business Economics - International Business Economics - Major Marketing [2024-2025 or earlier] - Bachelor Economics and Business Economics - International Business Economics - Major Organisation [2024-2025 or earlier] - Bachelor Economics and Business Economics - International Business Economics - Major Strategy [2024-2025 or earlier] - Bachelor Economics and Business Economics - International Business Economics - Major Supply Chain Management [2024-2025 or earlier] - From 2025-2026 onwards, education and exam/resit opportunities are offered. Alternative options may be available. See the Bachelor EER 2025-2026 Appendix I Article 16 for more information. <table><col style="width: 200px;"><col style="width: 120px;"><col style="width: 120px;"><col><thead><tr><th>Academic Year</th><th>Education</th><th>Exam/Resit</th><th>Replacement(s)</th></tr></thead><tbody><tr><td>2025-2026 onwards</td><td>X</td><td>X</td><td>See the Bachelor EER 2025-2026 Appendix I Article 16 for more information</td></tr></tbody></table>
Teaching methods	PBL / Presentation / Lecture / Assignment / Groupwork
Assessment methods	Final Paper / Attendance / Participation / Oral Exam / Presentation
Evaluation in previous academic year	For the complete evaluation of this course please click http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM

This course belongs to the following programme / specialisation

Bachelor Business Analytics	Year 3 Elective Courses
Bachelor Economics and Business Economics - Economics	Year 3 Quantitative Economics Electives
Bachelor Economics and Business Economics - Emerging Markets	Year 3 Elective Courses
Bachelor Economics and Business Economics - Economics and Management of Information	In transition - Year 2+3 QE Electives
Bachelor Economics and Business Economics - Economics and Management of Information	Year 3 Quantitative Economics Elective
Bachelor Economics and Business Economics - International Business Economics	In transition - Maj Accounting - QE Elec
Bachelor Economics and Business Economics - International Business Economics	In transition - Maj Finance - QE Elec
Bachelor Economics and Business Economics - International Business Economics	In transition - Maj Inf Mgmt - QE Elec
Bachelor Economics and Business Economics - International Business Economics	In transition - Maj Marketing - QE Elec
Bachelor Economics and Business Economics - International Business Economics	In transition - Maj Org - QE Elec
Bachelor Economics and Business Economics - International Business Economics	In transition - Maj SCM - QE Elec
Bachelor Economics and Business Economics - International Business Economics	In transition - Maj Strategy - QE Elec
Bachelor Economics and Business Economics - International Business Economics	Year 3 Quantitative Economics Elective
Bachelor International Business - Emerging Markets	Year 3 Elective Courses
Bachelor International Business	Year 3 QE Elecs - Maj Accounting
Bachelor International Business	Year 3 QE Elecs - Maj Finance
Bachelor International Business	Year 3 QE Elecs - Maj Inf Mgmt
Bachelor International Business	Year 3 QE Elecs - Maj Marketing
Bachelor International Business	Year 3 QE Elecs - Maj Org
Bachelor International Business	Year 3 QE Elecs - Maj SCM
Bachelor International Business	Year 3 QE Elecs - Maj Strategy
SBE Exchange Bachelor	Bachelor Exchange Courses
SBE Exchange Master	Bachelor Exchange Courses
SBE Non Degree Courses	Bachelor Courses