

Course Descriptions None 2022-2023

Course Title	Empirical Analysis I																
Course Code	EBC4183																
ECTS Credits	6,5																
Assessment	Whole/Half Grades																
Period	<table border="1"> <thead> <tr> <th>Period</th> <th>Start</th> <th>End</th> <th>Mon</th> <th>Tue</th> <th>Wed</th> <th>Thu</th> <th>Fri</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>5-9-2022</td> <td>21-10-2022</td> <td>X</td> <td></td> <td></td> <td>X</td> <td></td> </tr> </tbody> </table>	Period	Start	End	Mon	Tue	Wed	Thu	Fri	1	5-9-2022	21-10-2022	X			X	
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1	5-9-2022	21-10-2022	X			X											
Level	Advanced																
Coordinator	Bram Foubert, Stephan Smeekes For more information:b.foubert@maastrichtuniversity.nl; s.smeekes@maastrichtuniversity.nl																
Language of instruction	English																
Goals	<p>In terms of the so-called Assurance of Learning standards, this course pursues the following learning objectives:</p> <ul style="list-style-type: none"> * Knowledge acquisition: students will acquire knowledge of statistical methods and econometric models that are relevant when dealing with continuous dependent variables. * Knowledge application and judgement: in several assignments, students will learn to use and extend their knowledge on the basis of realistic cases and datasets. * Research skills: the acquired knowledge involves (the application of) econometric techniques and thus directly contributes to students' research skills. Moreover, students will gain experience with data analysis in the open-source programming environment R, a research skill that we also be relevant beyond this course. * Communication and professional attitude: to realize the above learning objectives, interaction, feedback, and teamwork will be key. As a result, students will also sharpen their communication skills and improve their professional attitude. 																
Description	<p>PLEASE NOTE THAT THE INFORMATION ABOUT THE TEACHING AND ASSESSMENT METHOD(S) USED IN THIS COURSE IS WITH RESERVATION. A RE-EMERGENCE OF THE CORONAVIRUS AND NEW COUNTERMEASURES BY THE DUTCH GOVERNMENT MIGHT FORCE COORDINATORS TO CHANGE THE TEACHING AND ASSESSMENT METHODS USED. THE MOST UP-TO-DATE INFORMATION ABOUT THE TEACHING/ASSESSMENT METHOD(S) WILL BE AVAILABLE IN THE COURSE SYLLABUS.</p> <p>Empirical analysis refers to research in which one gains knowledge on the basis of observation or experience. In economics and business economics, the goal of empirical analysis very often is to model and quantify relationships between various events or phenomena. In this course, we will learn how econometrics, and in particular its mainstay regression analysis, enable us to analyze (business) economic relationships between a phenomenon (the dependent variable) and its drivers (the independent variables). We will focus on relationships that are linear (or linearizable) in the parameters, and where the dependent variable is a real number (as opposed to, e.g., a nominal outcome). More precisely, we will learn how we can build valid econometric models and study how and under which conditions we can use the method of ordinary least squares (OLS) to calibrate these models. We will discuss the problems if these conditions are not met and address possible solutions. Specific attention will be dedicated to models for time series data. Throughout the course, we do not stick to a purely theoretical discussion of the relevant concepts but apply our knowledge to real-life problems. On the basis of structured assignments with realistic data, we will conduct econometric analyses in the open-source programming environment R. As such, a secondary objective of this course is to introduce students to data analysis in R, a skill that will also be useful in other courses and in many research-oriented jobs.</p>																
Literature	<p>Assessment Methods : Participation, Reports, Exam.</p> <p>Wooldridge, Jeffrey M. (2009), Introductory Econometrics: A Modern Approach (4th ed.), South-Western Cengage Learning, or any more recent version.</p>																
Prerequisites	<p>Essential (to be brushed up if necessary):</p> <ul style="list-style-type: none"> * Knowledge of basic statistics * Knowledge of elementary algebra and basic calculus * Experience with a statistical package like SPSS <p>Strongly recommended:</p> <ul style="list-style-type: none"> * Notions of matrix algebra (e.g. addition, multiplication, transpose, singularity, inversion) * Notions of regression analysis and ordinary least squares (OLS) * Notions of programming and algorithmic thinking 																
Teaching methods	PBL / Lecture / Assignment / Research																
Assessment methods	Final Paper / Participation / Assignment / Presentation / Take home exam																
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	<table border="1"> <tr> <td>Master Business Research - No specialisation</td> <td>Year 1 Compulsory Course(s)</td> </tr> </table>	Master Business Research - No specialisation	Year 1 Compulsory Course(s)														
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