# Course Descriptions None 2017-2018

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| Course Title | Empirical Econometrics 1 |
| Course Code | EBC4184 |
| ECTS Credits | 6,5 |
| Assessment | None |

Period

| Period | Start | End | Mon | Tue | Wed | Thu | Fri |
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| 1 | 4-9-2017 | 27-10-2017 | X | | X | | |

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| Level | Advanced |
| Coordinator | Pierre Mohnen For more information:p.mohnen@maastrichtuniversity.nl |
| Language of instruction | English |
| Goals | The purpose of this course is to review and discuss a number of econometric and statistical techniques that are essential for empirical research in economics. |
| Description | The course would be devoted to techniques that are mainly used in microeconomic studies, labour economics, technology, industrial Organisation. The emphasis will be on the understanding of the fundamentals behind the techniques used, their applicability, empirical relevance, economic interpretation, their limitations, both from a empirical and methodological point of view . Each topic is empirically driven in that it is motivated by choosing one (or more) empirical papers published in a leading economic journal illustrating the use of the techniques. The paper will be studied and the techniques used will be explained and discussed in depth.<br>The students will work on empirical paper(s)/project(s) to learn the applications of the techniques and models discussed. The econometrics/statistical package that will be mainly used through the course is STATA.<br><br>List of possible topics that will be discussed during the course:<br>- Causal models, OLS, IV<br>- Binary outcome models (logit, probit ...)<br>- Multinomial models<br>- Tobit and selection Models<br>- Treatment Effect causal models, policy evaluation, regression discontinuity, ..<br>- Survival analysis and transition analysis<br>- GMM estimation of intertemporal models in microeconomics<br>- Count data models, poison regression models |
| Literature | Cameron, A.C. and P. K. Trivedi (2005), Microeconometrics: Methods and Applications, (Cambridge University Press: Cambridge)<br>Angrist, J.A. and J.S. Pischke (2009), Mostly Harmless Econometrics, (Princeton University Press: Princeton).<br>Greene, W.H. (2007) Econometric Analysis, (Prentice Hall: new York)<br>Empirical Papers from leading economic journals |
| Prerequisites | We assume that the students entering the Research master and following this course have at least a level comparable to the IES bachelor course Empirical Econometrics; have a good working knowledge of matrix algebra, of integrals calculus and are familiar with concepts from probability theory and mathematical statistics. |
| Teaching methods | PBL / Presentation / Lecture / Assignment |
| Assessment methods | Participation / Oral 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

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| Master Business Research | Methodology Electives |
| Master Business Research Track OR | Methodology Electives |
| Master Economic and Financial Research | Compulsory Courses |