Course Descriptions Master 2022-2023

Course Title	Technology and Productivity Growth							
Course Code	EBC4143							
ECTS Credits	6,5							
Assessment	Whole/Half Grades							
Period	Period	Start	End	Mon	Tue	Wed	Thu	Fri
L sout		5-9-2022	21-10-2022	C				
Level	Advanced							
Coordinator	Mark Sanders For more information:m.sanders@maastrichtuniversity.nl							
Language of instruction	English							
Goals	I ne purpose of this course is to gain a thorough understanding of the various models of endogenous growth, specifically with respect to the role of technology and innovation in these models							
Description	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.							
	The purpose technology ar theoretical ins studied using papers by Luc	of this course nd the decisio sights brought capita selecta cas, Romer, A	is to look into ns underlying forward in the a from the tex Aghion and Ho	the economic changes in te framework o tbook by Barro witt, and Jone	cs of productiv chnology, cor of so-called ne o and Sala-i-M es.	rity growth, an htribute to sucl w growth theo fartin, as well	d particularly h growth acco ory. That theor as some sem	now rding to the y will be inal growth
Literature	The literature Martin and so will provide at * Aghion, P. a * Barro, R.J. a Appendix A.	we will be co me selected p dditional clarif and P. Howitt, and X. Sala-i-l	ncerned with papers coverin ying notes. Th 1998, Endoge Martin, 2004,	consists of some ng the main st ne capita select enous Growth Economic Gro	me capita sele cory-lines in m cta/papers are Theory, MIT owth, Mc-Grav	ecta from the l odern growth e: press, chapter v-Hill, New Yo	book by Barro theory. During r 2. ork, Chapters 7	and Sala-i-) the course, I 1,2,5,6,7,
	 * Brunner, M. and H. Strulik, 2002, 'Solution of perfect foresight saddlepoint problems: a simple method and applications', Journal of Economic Dynamics and Control, 26, pp. 737-753. * Dorfman, R., 1969, 'An Economic Interpretation of Optimal Control Theory', American Economic Review, 59, pp. 817-830. * Jones, C.I., 1995, 'R&D-Based Models of Economic Growth', Journal of Political Economy, 103, pp. 759-784. 							
	* Lucas, R.E., 1988, 'On the Mechanics of Economic Development', Journal of Monetary Economics, 22, pp. 3-27 (excluding pages 24 and 25 dealing with the transitional dynamics of the model, and excluding parts 5-							
	[*] Komer, P., 1990, 'Endogenous Technological Change', Journal of Political Economy, 98, pp. S71-S102. * Acs, Z. and M. Sanders (2013), 'Knowledge Spillover Entrepreneurship in an Endogenous Growth Model', in: Small Business Economics Journal, 41(4): 775-795, ISSN: 0921-898X.							
Prerequisites	Minimum requirements are second year macro-economics and micro-economics as well as mathematics. It is absolutely necessary that students have a feeling for mathematical abstractions, and the way in which these are used in formal economic models. In addition, students must be prepared to work hard, as for most of them the actual computer implementation of an economic model will be a totally new experience. This holds a fortiori for handling the modelling software.							
Teaching methods	Assignment / Research / Skills							
Assessment methods	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	Master Busin	ess Research	n - No speciali	sation	Year 2 Free	Elective(s)		
	Master Busin	ess Research	n - Operations	Research	Year 1 Elect	ive Course(s)		
	Master Busin	ess Research	n - Operations	Research	Year 2 Elect	ive Course(s)		
	Master Econ	omic and Fina	ancial Researc	ch -	Year 2 Elect	ive Course(s)		
	Master Econ specialisation	omic and Fina	ancial Researc	ch - No	Year 2 Elect	ive Course(s)		