

Course Title	Game Theory and Economics							
Course Code	EBC2110							
ECTS Credits	6,5							
Assessment	None							
Period	Period	Start	End	Mon	Tue	Wed	Thu	Fri
	2	29-10-2018	21-12-2018	X/E		X/E	X/E	
Level	Advanced							
Coordinator	Dries Vermeulen For more information:d.vermeulen@maastrichtuniversity.nl							
Language of instruction	English							
Goals	Knowledge of the main concepts in cooperative and non-cooperative game theory; skills in applying these concepts in economic models.							
Description	<p>This course discusses the main concepts from cooperative and non-cooperative game theory:</p> <ul style="list-style-type: none"> <li>- Cooperative game theory: core, Shapley value, nucleolus.</li> <li>- Non-cooperative game theory: Nash equilibrium, subgame perfect equilibrium, Bayesian and perfect Bayesian equilibrium.</li> </ul> <p>The emphasis will be on concepts and applications. Applications range from oligopoly theory to job market signalling, investment policies, organisational strategies, and cost allocation.</p>							
Literature	Game Theory: A multi-levelled approach, author: Hans Peters/Springer 2015 2nd edition.							
Prerequisites	<p>1. The course is open for all students, although Economics students should be aware of the challenging technical level of this course. The course Thinking strategically could be a proper alternative.</p> <p>2. This course is compulsory for 2nd-year students Econometrics and Operations Research.</p> <p>3. Exchange students need to follow a Bachelor in economics, not in business and must have a decent level in mathematics, especially calculus. Some prior knowledge about microeconomics would be helpful.</p> <p>An advanced level of English.</p>							
Teaching methods	PBL / Lecture / Assignment							
Assessment methods	Participation / Written Exam							
Evaluation in previous academic year	For the complete evaluation of this course please click <a href="http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM">http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM</a>							
This course belongs to the following programme / specialisation	Bachelor Economics and Business Economics - Economics				QE Electives			
	Bachelor Economics and Business Economics - Emerging Markets				QE Electives			
	Bachelor Economics and Business Economics - Economics and Management of Information				QE Electives			
	Bachelor Economics and Business Economics - International Business Economics				QE Electives			
	Bachelor Econometrics and Operations Research				Year 2 Compulsory Courses			
	Bachelor International Business				QE electives			
	SBE Exchange Bachelor				Bachelor Exchange Courses			
	SBE Exchange Master				Bachelor Exchange Courses			
	SBE Non Degree Courses				Bachelor Courses			