

MW68: Game Theory				Study Programme:	M
Module Type:	ECTS Credits:	Workload:	Study semester:	Module Duration:	
Optional compulsory	8	240	2. or 4.	one semester	
Courses (HPW=hours per week):			Contact hours:	Independent study:	Planned Group Size:
Course 1: Game Theory (2 HPW)			30h	90h	25
Course 2: Game Theory - Tutorial (2 HPW)			30h	90h	25
Intended Learning Outcomes (ILOs):					
<p>By the end of the module, students will be able to</p> <ul style="list-style-type: none"> - repeat and exemplify fundamental and advanced concepts of the game theory which will be used in the following master degree programme; - represent and exemplify strategic behaviour of players and their interactions by means of the game theory; - apply the gained knowledge exemplary on chosen areas of economics; - simplify complex economic issues by the means of the game theory; - adopt and transact the gained expertise of course 1 by the means of practical tasks. 					
Key competencies:					
<ul style="list-style-type: none"> - critical thinking - analytical skills - willingness to learn and accomplish - expressiveness (oral and written) - problem solving 					
Description/Contents:					
<p>Course 1: Game Theory</p> <ol style="list-style-type: none"> 1. static games with complete information 2. dynamic games with complete information 3. evolutionary game theory 4. static games with incomplete information 5. dynamic games with incomplete information <p>Course 2: Game Theory – tutorial Cf. contents of course 1.</p>					
Language:					
The language of the module is German or English.					
Teaching Methods:					
Lectures, group work, self-study					

Module Applicability:
M.Sc. Business Administration; M. Sc. Economics; M.Sc. Mathematics.
Pre-requisites/Requirements:
Admission to study Business Administration, Economics or Mathematics for a Master's degree. A good understanding of Microeconomics and previous knowledge in Mathematics from the Bachelor's degree programme are required.
Examination Types:
Comprehensive examination in form of a written exam at the end of the summer semester (60 minutes).
Requirements for Award of Credit Points:
Successful participation in the exam. The exam will be passed if the grade is at least „sufficient“ (4,0).
Availability:
The module will be offered generally each summer term.
Assessment:
This course will be graded and is part of the calculation for the overall grade of your master degree. Particular information concerning the calculation of the overall grade can be gathered in the respective examination regulations.
Person Responsible and Main Lecturer:
Prof. Dr. Hans-Theo Normann and teaching/research assistants of the DICE.
Further Information:
Current information can be found at the website of the DICE. It is possible to write a project work during this module (MQ04, MQ05 or MQV01).

State: 15.01.2018