

Module title		Abbreviation
Games and Strategies		12-S&W1-F-262-m01
Module coordinator		Module offered by
holder of the Chair of Industrial Economics		Faculty of Management and Economics
ECTS	Method of grading	Only after succ. compl. of module(s)
5	numerical grade	--
Duration	Module level	Other prerequisites
1 semester	undergraduate	--
Contents		
<p>Outline of syllabus:</p> <ol style="list-style-type: none"> <li>Static games with complete information <ul style="list-style-type: none"> <li>Concept of a game</li> <li>Solution concepts and the Nash equilibrium</li> <li>Continuous strategy sets</li> <li>Nash equilibrium in mixed strategies</li> </ul> </li> <li>Dynamic games with complete information <ul style="list-style-type: none"> <li>Subgame perfect Nash equilibrium</li> <li>Repeated games</li> </ul> </li> <li>Static games with incomplete information: Bayesian Nash equilibrium</li> <li>Dynamic games with incomplete information <ul style="list-style-type: none"> <li>Perfect Bayesian Nash equilibrium</li> <li>Signaling games</li> </ul> </li> </ol>		
Intended learning outcomes		
<p>Students which complete this course will be able to</p> <p>(i) explain different equilibrium concepts (Nash equilibrium, subgame perfect equilibrium, bayesian equilibrium, perfect bayesian equilibrium);</p> <p>(ii) explain for which kind of strategic situation each of these equilibrium concepts were developed;</p> <p>(iii) apply these concepts to simple realistic strategic situations;</p> <p>(iv) choose the appropriate equilibrium concept which fits best to a given strategic situation.</p>		
Courses (type, number of weekly contact hours, language — if other than German)		
V (2) + Ü (2) Module taught in: English		
Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)		
a) written examination (approx. 60 to 120 minutes) or b) portfolio (approx. 50 hours total) Language of assessment: English creditable for bonus		
Allocation of places		
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Additional information		
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Workload		
150 h		
Teaching cycle		
Teaching cycle: summer semester		
Referred to in LPO I (examination regulations for teaching-degree programmes)		
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<b>Module appears in</b>
keinem Studiengang zugeordnet