

Module title		Abbreviation
Games and Strategies		12-S&W1-F-242-m01
Module coordinator		Module offered by
holder of the Chair of Industrial Economics		Faculty of Business 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"> 1. Static games with complete information <ul style="list-style-type: none"> • Concept of a game • Solution concepts and the Nash equilibrium • Continuous strategy sets • Nash equilibrium in mixed strategies 2. Dynamic games with complete information <ul style="list-style-type: none"> • Subgame perfect Nash equilibrium • Repeated games 3. Static games with incomplete information: Bayesian Nash equilibrium 4. Dynamic games with incomplete information <ul style="list-style-type: none"> • Perfect Bayesian Nash equilibrium • Signaling games 		
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: German and/or 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)		
written examination (approx. 60 minutes) Language of assessment: German and/or English creditable for bonus		
Allocation of places		
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Additional information		
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Workload		
150 h		
Teaching cycle		
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Referred to in LPO I (examination regulations for teaching-degree programmes)		
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Module appears in

Bachelor' degree (1 major) Business Information Systems (2024)

Bachelor' degree (1 major) Econometrics (2024)

Bachelor' degree (1 major) Business Management and Economics (2024)

Bachelor's degree (1 major, 1 minor) Business Management and Economics (Minor, 2024)