

The title of the course	Game Theory with Applications
Faculty	Faculty of Management and Transport
The level of studies	Bachelor Studies, Engineering Studies or
The level of studies	Postgraduate Studies
Semester	Winter or summer
The form of classes and number of	2 ECTS
hours	2 2013
nours	Lectures and Exercises with the teacher 15h
	Student's own work:
	Homeworks 25 h
	Preparation for the test 10 h
	TOTAL: 50 h
Language of instruction	English
The number of ECTS	4
Teacher	Jarosław Jabłonka, PhD
The aims of the course	The main aim of the course is to familiarize the
(maximum 500 characters)	student with the basic concepts of game theory
	and its applications in the analysis of social,
	economic and transport behavior. Game theory
	helps to understand people's decision-making in
	both conflict and cooperative situations.
The content of the course: main topics	Basic notions: a game, a strategy, cooperation,
and key ideas	rationality, an equilibrium, solving a game,
	normal and extensive forms of a game.
	Zero and non-zero sum games with two players.
	Games against the Nature.
	Multi-player games.
	Applications in Economic.
D'de d'as avails de	Applications in Transportation Systems.
Didactics methods	Presentations, conversation, working in groups
Course requirements	Presentation, homework, attendance
Literature (basic and supplementary)	Straffin Philip D., Game Theory and Strategy,
	MAA, 2004
	Watson J., Strategy: An Introduction to Game
	Theory, W. W. Norton & Company, 2009
	Binmore K., Game Theory: A Very Short
	Introduction, Oxford University Press, 2007
	Peters H., Game Theory. A Multi-Leveled
	Approach, Springer-Verlag Berlin Heidelberg,
	2008 Chatteries K. Camuelson W. E. Came Theory
	Chatterjee K., Samuelson W. F., Game Theory
	and Business Applications, Springer
	Science+Business Media New York, 2001
The effects of the education	Knowledge: understanding basis nations of
	Knowledge: understanding basic notions of
- knowledge - skills	game theory, paradoxes in Game Theory.
	Skills: solving simple games, modelling simple
social competences	economic and transportation situation by use of



	game theory, drawing comprehensive conclusions. Social competences: the art of argumentation, criticism in expressing opinions, independent and group work skills.
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