POZNAN UNIVERSITY OF TECHNOLOGY



EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

COURSE DESCRIPTION CARD - SYLLABUS

Course name Decision's games [S2IBiJ1-BiZK>GD]

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Coordinators		Lecturers	
Number of credit points 2,00			
Tutorials 15	Projects/seminars 0		
Number of hours Lecture 15	Laboratory classe 0	S	Other (e.g. online) 0
Form of study full-time		Requirements elective	
Level of study second-cycle		Course offered in Polish	
Area of study (specialization) Safety and Crisis Manangement		Profile of study general academic	
Course Field of study Safety and Quality Engineering		Year/Semester 1/2	

Prerequisites

The student formulates opinions on the basis of group discussion, brainstorming, implemented SWOT and PEST analyzes, explain their applications and summarize and recommend corrective actions. The student formulates opinions on the basis of group discussion, brainstorming, implemented SWOT and PEST analyzes, explain their applications and summarize and recommend corrective actions.

Course objective

Developing the potential of knowledge, skills and attitudes in making market and (especially crisis) management decisions based on the acquired knowledge and skills acquired at the first level of education at the university using decision games.

Course-related learning outcomes

Knowledge:

1. The student has structured knowledge of the following concepts: decisions, decision-making process, decision-making rules, barriers to decision-making, game theory, simulation games, serious simulation games, management games [K2_W08].

2. The student knows in depth the psychological aspects taken into account in professional activity in

the field of safety engineering in the field of: decisions, decision-making process, decision-making rules, barriers to decision-making, conflicts in decision-making processes [K2_W10].

Skills:

1. The student is able to implement the assumptions of project management, including: organizing a decision-making team and assigning responsibilities [K2_U09].

2. The student is able to communicate in the field of recommendations to improve decision-making [K2_U11].

Social competences:

1. The student is critical of his knowledge, is ready to consult experts when solving decision-making problems [K2_K01].

2. The student is prepared to reliably perform professional roles resulting from current economic and social needs in the field of decision-making [K2_K06].

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Form Rating: Participation in classes; carrying out tasks and placing them on e-courses; 51% of points in current knowledge (knowledge test in each class); Skills - passing 2-3 decision games on a scale of 1-100 points 51% of points for passing calculations; The final grade is an external source. Rating 3.0 - 51-60 points Rating 3.5 - 61-70 points Rating 4.0 - 71-80 points Rating 4.5 - 81-90 points Rating 5.0 - 91-100 points Social competences - work in project teams (internal team division of grades)

Programme content

Lecture: Essence, goals, types of decisions; Deciding and decision-making processes; Features of the decision-making process; Classification of decisions; Criteria for making rational decisions; The shaping of the decision-making process; Models and decision-making methods; Decision rules; Barriers in making decisions; Risk and uncertainty in decision making; Game theory in decision making; Game concepts; Game history; Simulation games, seriously simulation games, management games; Conflicts in simulation games

Tutorials: The course of simulation games; Inference based on the results of simulation games

Course topics

none

Teaching methods

talk, teamwork, presentation, games The lecture is conducted using distance learning techniques in a synchronous mode. Acceptable platforms: eMeeting, Zoom, Microsoft Teams.

Bibliography

Basic:

Więcek-Janka, E. (2011). Games and Decisions, Poznań: Wydawnictwo Politechniki Poznańskiej.

Additional:

1. Opracowania Szkoły Symulacji Systemów Gospodarczych (w latach 2000-2010), Wydawnictwo Politechniki Wrocławskiej, Wrocław (lata 2000-2010).

2. Mierzwiak R., Nowak M., Modele decyzyjne w teorii systemów szarych, Polskie Towarzystwo Ekonomiczne, 2020.

Breakdown of average student's workload

	Hours	ECTS
Total workload	60	2,00
Classes requiring direct contact with the teacher	30	1,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	30	1,00