GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	NETWORK ECONOMIES AND INNOVATION POLICIES, PG_00060829		
Field of study	Economic Analytics		
Date of commencement of studies	October 2023	Academic year of realisation of subject	2024/2025
Education level	second-cycle studies	Subject group	Optional subject group Subject group related to scientific research in the field of study
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	English
Semester of study	3	ECTS credits	4.0
Learning profile	general academic profile	Assessment form	exam
Conducting unit	Katedra Inżynierii Zarządzania i Jakości -> Faculty of Management and Economics		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Anna Lis	
	Teachers	dr hab. inż. Anna Lis	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	15.0	30.0	0.0	0.0	0.0	45

E-learning hours included: 0.0

Learning activity and number of study hours

Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours	Self-study	SUM
Number of study hours	45	8.0	47.0	100

Subject objectives

Explaining phenomena related to the development of inter-organizational cooperation, especially in the area of innovation

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_W04] analyzes complex problems in an in-depth way on the basis of reliable data and properly selected methods, obtaining logical solutions	analyzes in-depth problems in the field of network economy, innovation policy, agglomeration theory and regional development concepts based on knowledge and innovation	[SW1] Assessment of factual knowledge
[K7_K01] recognizes the importance of knowledge related to the field of study in solving cognitive and practical problems	uses the acquired knowledge in the field of network economy and innovation policy to identify and develop clusters based on knowledge and innovation	[SK5] Assessment of ability to solve problems that arise in practice

Subject contents

Introduction
General theory of innovation: Theoretical background and definitions. Schumpeterian innovation
Innovation models: Interactive models of an innovation process (coupling model, chain-linked model, systemic models)
Networks in economics: Network externalities. Forms of collaboration. Diffusion of innovation in networks
Industrial districts: Marshall's industrial districts, Italian industrial districts
Knowledge and innovation networks: Regions as hubs of knowledge and innovation learning regions. Science-business cooperation networks triple helix. Knowledge flows based on relationships open innovation
Territorial innovation models: innovation systems, innovative milieu, ecosystem of innovation
Clusters: Clusters as an example of innovation networks
Regional innovation networks: case studies
Cluster initiatives: case studies
Innovation policy in Europe: Programs supporting the development of innovation
Innovation policy instruments part 1: The mix of innovation policy instruments innovation centers, technology transfer centers
Innovation policy instruments part 2: The mix of innovation policy instruments science and technology parks, business incubators
Innovation policy instruments: case studies
Exam

Prerequisites and co-requisites

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Exam	60.0%	60.0%
	Home works	60.0%	40.0%
Recommended reading	Basic literature	Bramoullé, Yann, Andrea Galeotti, and Brian Rogers, eds. The Oxford handbook of the economics of networks. Oxford University Press, 2016 Marshall, Alfred. Principles of economics: unabridged eighth edition. Cosimo, Inc., 2009 Porter, M.E., On Competition. Harvard Business Press, 2008 Rogers, Everett M. Diffusion of innovations. Simon and Schuster, 2010 Sundbo, Jon. The theory of innovation: enterpreneurs, technology and strategy. Edward Elgar Publishing, 1998	
	Supplementary literature	Adner R., Kapoor R. (2010). Value creation in innovation ecosystems: How the struc-ture of technological interdependence affects firm performance in new technology generations. Strategic Management Journal, 31(3), 306333 Autio E., Thomas L.D.W. (2014). Innovation ecosystems: Implications for innovation management? W: M. Dodgson, D. Gann, N. Phillips (red.). The Oxford Handbook of Innovation Management (s. 204228). Oxford, UK: Oxford University Press Bogers M. (2011). The open innovation paradox: knowledge sharing and protection in R&D collaborations. European Journal of Innovation Management, 14(1), 93-117 Chesbrough, H., & Bogers, M. (2014). Explicating Open Innovation: Clarifying an Emerging Paradigm for Understanding Innovation. In: Chesbrough H., Vanhaverbeke W., & West J. (Eds.). Open Innovation: New Frontiers and Applications. Oxford: Oxford University Press	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		