GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	NETWORK ECONOMIES AND INNOVATION POLICIES, PG_00066451		
Field of study	Economic Analytics		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2025/2026
Education level	second-cycle studies	Subject group	Optional subject group Specialty 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	3.0
Learning profile	general academic profile	Assessment form	exam
Conducting unit	Department of Management Engineering and Quality -> 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	3.0	27.0	75

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] Describes and explains complex analytical problems using in-depth knowledge of analytical methods and reliable data, providing answers to fundamental dilemmas of the modern economy.	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 their own knowledge as well as that of external experts related to the field of economic analytics, critically evaluating both this knowledge and the received information.	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

<table>
<tr><td>Prerequisites and co-requisites</td><td colspan="2"></td></tr>
<tr><td>Assessment methods and criteria</td><td colspan="2"><table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>Test</td><td>60.0%</td><td>60.0%</td></tr>
<tr><td>Home works</td><td>60.0%</td><td>40.0%</td></tr>
</table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>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</td></tr>
<tr><td>Supplementary literature</td><td>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</td></tr>
<tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2"></td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
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