



Subject card

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|---|--|--|---|-------------------------------------|---------|--|-----|
| Subject name and code | NETWORK ECONOMIES AND INNOVATION POLICIES, PG_00070527 | | | | | | |
| Field of study | Economic Analytics | | | | | | |
| Date of commencement of studies | October 2026 | Academic year of realisation of subject | | | | 2027/2028 | |
| Education level | second-cycle studies | 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 | | | | 4.0 | |
| Learning profile | general academic profile | Assessment form | | | | exam | |
| Conducting unit | Department of Management Engineering and Quality -> Faculty of Management and Economics -> Faculties of Gdańsk University of Technology | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr hab. inż. Anna Lis | | | | |
| | Teachers | | | | | | |
| Lesson types | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 30.0 | 30.0 | 0.0 | 0.0 | 0.0 | 60 |
| | 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 | 60 | | 3.0 | | 37.0 | 100 |
| Subject objectives | to prepare students to analyze and interpret phenomena of network economies and innovation policies based on knowledge of development theories and innovation support instruments, and to foster attitudes related to critical evaluation of information and responsible application of knowledge in the context of inter-organizational cooperation and cluster development | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | | Method of verification | |
| | [K7_W06] knows and understands the principles of evaluating the reliability of utilized data, applying in-depth specialized knowledge in the field of economic analysis. | | knows and understands the principles of data credibility assessment and methods of economic analysis in the context of analyzing network economy, innovation processes, and regional development. | | | [SW1] Assessment of factual knowledge | |
| | [K7_K02] acts entrepreneurially, making competent and ethical decisions that consider the public interest as well as economic, social, and environmental values. | | is ready to make entrepreneurial and ethical decisions, in particular through participation in case study analysis and teamwork concerning the development of innovation networks and clusters, taking into account economic, social, and environmental values. | | | [SK5] Assessment of ability to solve problems that arise in practice | |
| | [K7_U04] is able to prepare and convincingly present the results of specialized analyses, providing in-depth interpretation during debates and meetings with various audiences. | | is able to develop their own potential and support others in the learning process by applying methods of analysis and interpretation of phenomena related to network economy and innovation policy. | | | [SU3] Assessment of ability to use knowledge gained from the subject [SU5] Assessment of ability to present the results of task | |

| Subject contents | <p>Course content – lecture</p> <ol style="list-style-type: none"> 1. Introduction 2. General theory of innovation: Theoretical background and definitions. Schumpeterian innovation 3. Innovation models: Interactive models of an innovation process (coupling model, chain-linked model, systemic models) 4. Networks in economics: Network externalities. Forms of collaboration. Diffusion of innovation in networks 5. Industrial districts: Marshall's industrial districts, Italian industrial districts 6. 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 7. Territorial innovation models: innovation systems, innovative milieu, ecosystem of innovation 8. Clusters: Clusters as an example of innovation networks 9. Regional innovation networks: case studies 10. Cluster initiatives: case studies 11. Innovation policy in Europe: Programs supporting the development of innovation 12. Innovation policy instruments part 1: The mix of innovation policy instruments innovation centers, technology transfer centers 13. Innovation policy instruments part 2: The mix of innovation policy instruments science and technology parks, business incubators 14. Innovation policy instruments: case studies <hr/> <p>Course content – exercises</p> <ol style="list-style-type: none"> 1. Introduction 2. General theory of innovation: Theoretical background and definitions. Schumpeterian innovation 3. Innovation models: Interactive models of an innovation process (coupling model, chain-linked model, systemic models) 4. Networks in economics: Network externalities. Forms of collaboration. Diffusion of innovation in networks 5. Industrial districts: Marshall's industrial districts, Italian industrial districts 6. 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 7. Territorial innovation models: innovation systems, innovative milieu, ecosystem of innovation 8. Clusters: Clusters as an example of innovation networks 9. Regional innovation networks: case studies 10. Cluster initiatives: case studies 11. Innovation policy in Europe: Programs supporting the development of innovation 12. Innovation policy instruments part 1: The mix of innovation policy instruments innovation centers, technology transfer centers 13. Innovation policy instruments part 2: The mix of innovation policy instruments science and technology parks, business incubators 14. Innovation policy instruments: case studies | | | | | | | | | | | |
|--|---|--|--|--------------------------|-------------------|-------------------------------|----------------|-------|-------|--------------------------------|-------|-------|
| Prerequisites and co-requisites | | | | | | | | | | | | |
| Assessment methods and criteria | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Subject passing criteria</th> <th style="width: 30%;">Passing threshold</th> <th style="width: 30%;">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td>Project report</td> <td>60.0%</td> <td>40.0%</td> </tr> <tr> <td>Test with open-ended questions</td> <td>60.0%</td> <td>60.0%</td> </tr> </tbody> </table> | | | Subject passing criteria | Passing threshold | Percentage of the final grade | Project report | 60.0% | 40.0% | Test with open-ended questions | 60.0% | 60.0% |
| Subject passing criteria | Passing threshold | Percentage of the final grade | | | | | | | | | | |
| Project report | 60.0% | 40.0% | | | | | | | | | | |
| Test with open-ended questions | 60.0% | 60.0% | | | | | | | | | | |
| Recommended reading | Basic literature | <ol style="list-style-type: none"> 1. Bramoullé, Yann, Andrea Galeotti, and Brian Rogers, eds. The Oxford handbook of the economics of networks. Oxford University Press, 2016 2. Marshall, Alfred. Principles of economics: unabridged eighth edition. Cosimo, Inc., 2009 3. Porter, M.E., On Competition. Harvard Business Press, 2008 4. Rogers, Everett M. Diffusion of innovations. Simon and Schuster, 2010 5. Sundbo, Jon. The theory of innovation: entrepreneurs, technology and strategy. Edward Elgar Publishing, 1998 | | | | | | | | | | |
| | Supplementary literature | <ol style="list-style-type: none"> 1. Adner R., Kapoor R. (2010). Value creation in innovation ecosystems: How the structure of technological interdependence affects firm performance in new technology generations. Strategic Management Journal, 31(3), 306-333 2. 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. 204-228). Oxford, UK: Oxford University Press 3. Bogers M. (2011). The open innovation paradox: knowledge sharing and protection in R&D collaborations. European Journal of Innovation Management, 14(1), 93-117 4. 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 | | | | | | | | | | | |
| Example issues/ example questions/ tasks being completed | | | | | | | | | | | | |

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| Practical activities within the subject | Not applicable |
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