University of Gdańsk

Subject card

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| Subject name and code | Organization and Operation of Sea Ports, PG_00199288 | | |
| Field of study | International Economic Relations | | |
| Date of commencement of studies | October 2026 | Academic year of realisation of subject | 2028/2029 |
| Education level | Bachelor's studies | Subject group | Obligatory subject group in the field of study<br>Optional subject group<br>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 | 3 | Language of instruction | Polish |
| Semester of study | 6 | ECTS credits | 5.0 |
| Learning profile | academic | Assessment form | exam |
| Conducting unit | Department of Maritime Transport and Seaborne Trade -> Faculty of Economics -> Rector | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr Janusz Dąbrowski | |
| | Teachers | | |

**Lesson types**

| Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|---|---|---|---|---|---|---|
| Number of study hours | 30.0 | 15.0 | 0.0 | 30.0 | 0.0 | 75 |

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 | 75 | 0.0 | 50.0 | 125 |

**Subject objectives**

To familiarize students with the specificity of seaports as complex and important economic entities, their equipment, scope of activity, production process, services provided, management methods and directions of their development.

| Learning outcomes | Course outcome | Subject outcome | Method of verification |
|---|---|---|---|
| | [MSGL3_K03] participates in the preparation of economic and social projects; can reconcile legal, economic, ecological, political and social requirements | The student is able to collaborate with other participants in developing joint projects. | [SK1] oral statement/conversation/ discussion |
| | [MSGL3_W13] has a knowledge of the functioning of business entities in the national and international environment, with particular emphasis on the European Union | The student understands the role and importance of seaports as elements of state infrastructure, transport hubs and links in transport chains, defines basic concepts related to seaports, lists the types of seaports, knows the measures of the size and importance of seaports, describes the basic technical equipment of seaports, characterizes the service items port and types of services provided in ports. The student knows the systems and models of seaport management in the world, understands the mechanism of operation of seaports, and characterizes contemporary directions of seaport development. The student consults port issues with the lecturer during consultations. | [SW4] test/exam - oral or written |
| | [MSGL3_U13] can prepare presentations and oral speeches on selected specific problems concerning international economic relations (in connection with the chosen speciality within International Economic Relations), using theoretical approaches, specialist terminology, principles of collecting data from various sources, their description and interpretation, and drawing conclusions based on scientific literature | The student is able to complete a project task concerning various aspects of the operation and development of seaports around the world and consult its assumptions with the lecturer. The student also has the ability to prepare a presentation using various data sources (Polish and foreign), specialized terminology, and is able to describe and interpret socio-economic phenomena related to port activities. | [SU2] presentation/project/paper/ report |

**Subject contents**

1. The role and importance of seaports (the concept of seaports, a seaport as an element of the state's economic infrastructure, a transport node, a link in the transport chain and supply chain, classification of seaports, transport accessibility of seaports, measures of the size and importance of seaports).
2. Technical equipment of seaports (elements of technical seaport equipment, seaport infrastructure, seaport suprastructure, spatial development of seaports, port transshipment and storage bases, use of the technical potential of seaports).
3. Subject of operational activities of seaports (cargo - concept and classification of cargo, transportability of cargo, unitized cargo; sea vessel - interdependencies in the ship-seaport system, time of stay of the ship in the port, methods of determining the speed of ship service in the port; means of hinterland transport - interdependencies in the land transport-seaport system, organization of hinterland transport services in the port).
4. Characteristics of the port production process (characteristics of port services, classification of port services,
forwarding services, agency and brokerage services, transhipment services, storage services, ship services).
5. Seaport management (seaport management systems and models, port infrastructure management, seaport
operations management, human resources management in seaports, marketing management, European port policy, international maritime organizations).

1. Basic measures of the size and importance of seaports (quantitative measures of cargo handling, quantitative and qualitative measures of ship handling, quantitative and qualitative measures of land transport services, measures determining the size and quality of the port's production potential, measures determining the port's position on the port services market, economic measures of activity port on the example of seaports in Europe, America, Asia, Africa and Australia).
2. Port terminals (conventional and specialized in Gdansk, Gdynia, Szczecin, Świnoujście).
3. Transport accessibility of seaports (characteristics of transport accessibility of the seaport in Gdańsk, Gdynia, Szczecin, Świnoujście).
4. Organization of seaport management in the world (systems and models of seaport management in the European Union, seaport management methods in selected countries around the world, seaport management systems in Poland).
5. Directions of seaport development (generations of seaports, containerization in seaports, seaports as logistics centers, sustainable development of seaports, organization and functioning of port clusters, role and functions of dry ports in the transport system).
6. Study visit to the Tri-City seaports (meeting with a representative of the port authority in Gdańsk or Gdynia, lecture on the functioning and development of the port, visit to individual terminals).

**Prerequisites and co-requisites**

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| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | Project/Presentation | 51.0% | 30.0% |
| | Written exam on the lecture | 51.0% | 70.0% |
| Recommended reading | Basic literature | Organizacja i funkcjonowanie portów morskich, red. K. Misztal, Wydawnictwo Uniwersytetu Gdańskiego, Gdansk 2010.<br>Grzelakowski A., Matczak M., Współczesne porty morskie. Funkcjonowanie i rozwój, Wydawnictwo Akademii Morskiej w Gdyni, Gdynia 2012. | |
| | Supplementary literature | Dąbrowski J., Klimek H., Analiza systemów i modeli zarządzania portami morskimi w Unii Europejskiej , [w:] Porty morskie i żegluga w systemach transportowych , red. J. Dąbrowski, T. Nowosielski, Instytut Transportu i Handlu Morskiego Uniwersytetu Gdanskiego, Gdansk 2014, s. 25-38.<br>Dąbrowski J., Proces kształtowania systemu zarządzania portami morskimi w Polsce , [w:] Porty morskie i żegluga w systemach transportowych, red. J. Dabrowski, T. Nowosielski, Instytut Transportu i Handlu Morskiego Uniwersytetu Gdańskiego, Gdańsk 2014, s. 39-52.<br>Klimek J., Szymanowska B., Dąbrowski J., Strategia rozwoju jako instrument kształtowania rynkowych zachowań portu morskiego w Gdyni , [w:] Zachowania rynkowe przedsiębiorstw w teorii i praktyce gospodarczej, red. B. Majecka, M. Jarocka, Polskie Towarzystwo Ekonomiczne w Gdańsku, Gdansk 2015, s. 190-218.<br>Klimek H., Dąbrowski J., Polskie porty morskie na rynkach usług portowych , "Studia i Materiały Instytutu Transportu i Handlu Morskiego", 2018, nr 15.<br>Klimek H., Dąbrowski J., Corporate social responsibility of the Port of Gdynia, SHS Web of Conferences, 2018, vol. 57, art. no. 01017.<br>Kaliszewski A., Kozłowski A., Dąbrowski J., Klimek H., Container terminals competitive factors - results of an international survey, SHS Web of Conferences, 2018, vol. 58, art. no. 01014.<br>Klimek H., Michalska-Szajer A., Dąbrowski J., Corporate social responsibility of the Port of Gdansk , "Scientific Journals of the Maritime University of Szczecin", 2019, 59 (131), s.72-82.<br>Klimek H., Michalska-Szajer A., Dąbrowski J., Corporate social responsibility of the Ports of Szczecin and Świnoujście, "Scientific Journals Maritime University of Szczecin", 2020, 61 (133), s. 99-107.<br>Kaliszewski A., Kozłowski A., Dąbrowski J., Klimek H., Key factors of container port competitiveness: A global shipping lines perspective, Marine Policy, July 2020, vol. 117.<br>Kaliszewski A., Kozłowski A., Dąbrowski J., Klimek H., LinkedIn survey reveals competitiveness factors of container terminals: forwarders view , Transport Policy, June 2021.<br>Michalska-Szajer A., Klimek H., Dąbrowski J., A comparative analysis of CSR disclosure of Polish and selected foreign seaports Case Studies on Transport Policy, Available online 1 June 2021.<br>Kaliszewski A., Dąbrowski J., Klimek H., Konkurencyjność portów morskich. Teoria i praktyka, Wydawnictwo Uniwersytetu Gdanskiego, Gdansk 2021.<br>Gostomski E, Nowosielski T., Ewolucja i znaczenie portów morskich w krajach Unii Europejskiej , Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2021.<br>Dąbrowski J. Klimek H. Rolbiecki R., Dostępność transportowa portów morskich w Polsce, Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2023.<br>Szymanowska B., Dąbrowski J., Klimek H., Innowacyjność portów morskich, Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2024. | |
| | eResources addresses | | |
| Example issues/ example questions/ tasks being completed | | | |
| Work placement | Not applicable | | |

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