University of Gdańsk

Subject card

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| Subject name and code | Sustainable Sea Transport, PG_00200100 | | |
| Field of study | International Economic Relations | | |
| Date of commencement of studies | October 2026 | Academic year of realisation of subject | 2027/2028 |
| Education level | Master'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 | part-time studies | Mode of delivery | at the university |
| Year of study | 2 | Language of instruction | Polish<br>Polish |
| Semester of study | 3 | ECTS credits | 3.0 |
| Learning profile | academic | Assessment form | credit |
| Conducting unit | Division of Maritime Economy -> Department of Maritime Transport and Seaborne Trade -> Faculty of Economics -> Rector | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr Tomasz Nowosielski | |
| | Teachers | | |

| Lesson types | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
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| | Number of study hours | 6.0 | 6.0 | 0.0 | 8.0 | 0.0 | 20 |
| | 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 |
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| | Number of study hours | 20 | 0.0 | 55.0 | 75 |

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| Subject objectives | Presentation of the issues of the development of modern maritime transport in the context of the need to implement the idea of sustainable development by enterprises operating on the markets of shipping and port services. |

## Learning outcomes

| Course outcome | Subject outcome | Method of verification |
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| [MSGMU2_U02] can observe, evaluate and critically analyse the causes and course of processes and phenomena taking place in the open economy; can formulate his/her own opinions on the subject, interpret statistical data and economic indicators necessary in this respect, and also forecast economic processes and phenomena using advanced methods and tools applied in economic sciences | The student is able to observe, evaluate and critically analyze the causes and course of processes and phenomena occurring in the economy, especially in the context of climate change. Is able to formulate his own opinions on the challenges that shipping and port companies must face in their efforts to reduce emissions of harmful substances into the natural environment. The student consults on issues related to the course and the project being carried out. | [SU1] oral statement/conversation/ discussion<br>[SU2] presentation/project/paper/ report<br>[SU4] test/exam - oral or written |
| [MSGMU2_W05] has a deep knowledge of the world economy, principles of global market functioning and international financial relations as well as the process of their evolution; understands the causes, regularities and consequences of occurring changes | The student has in-depth knowledge of the role of maritime transport in the global economy, identifies the most important challenges regarding the functioning and development of this branch of transport, especially in the context of climate change. Knows the principles of operation of international markets in which shipping and port companies participate. Understands the causes, regularities and consequences of introducing changes in the operation of these enterprises that are intended to reduce their harmful emissions into the natural environment. The student consults on issues related to the course and the project being carried out. | [SW4] test/exam - oral or written<br>[SW2] presentation/project/paper/ report |
| [MSGMU2_K05] is ready to initiate actions in the public interest, inspire and organise projects for the benefit of the environment and the international business community, in accordance with the idea of sustainable development and the resulting legal, economic, ecological, political and social requirements | The student demonstrates understanding of the need to protect the natural environment by shipping and port companies in accordance with the idea of sustainable development and the resulting legal, economic, ecological, political and social requirements. The student consults on issues related to the course and the project being carried out. | [SK2] presentation/project/paper/ report<br>[SK4] test/exam - oral or written |

## Subject contents

1. Introduction to the issue of sustainable development of transport (concept of sustainable development, its origins and definitions).

2. Maritime transport as a source of environmental pollution.

3. The most important challenges facing maritime transport in terms of reducing harmful emissions into the natural environment.

4. Sustainable development in the maritime transport sector (issues of safety and environmental protection in maritime transport; maritime transport as an element of an integrated transport system; directions of development of maritime transport; pro-ecological innovations in shipping and sea ports).

5. Legal standards for the protection of the marine environment; MARPOL, Helsinki Convention; UNCLOS; EU law; national law.

6. International cooperation in the protection of the marine environment.

## Prerequisites and co-requisites

## Assessment methods and criteria

| Subject passing criteria | Passing threshold | Percentage of the final grade |
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| Project | 51.0% | 20.0% |
| Exam and Class Participation | 51.0% | 80.0% |

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| Recommended reading | Basic literature | 1. Biała Księga Plan utworzenia jednolitego europejskiego obszaru transportu - dążenie do osiągnięcia konkurencyjnego i zasobooszczędnego systemu transportu, Bruksela 2011.<br><br>2. Komunikat Komisji do Parlamentu Europejskiego, Rady Europejskiej, Rady, Komitetu Ekonomiczno-Społecznego i Komitetu Regionów. Europejski Zielony Ład, Bruksela 2019.<br><br>3. Komunikat Komisji do Parlamentu Europejskiego, Rady, Europejskiego Komitetu Ekonomiczno-Społecznego i Komitetu Regionów. Strategia na rzecz zrównoważonej i inteligentnej mobilności - europejski transport na drodze ku przyszłości, Bruksela 2020.<br><br>4. Komunikat Komisji do Parlamentu Europejskiego, Rady, Europejskiego Komitetu Ekonomiczno-Społecznego i Komitetu Regionów. "Gotowi na 55": osiągnięcie unijnego celu klimatycznego na 2030 r. w drodze do neutralności klimatycznej, Bruksela 2021.<br><br>5. *Efektywność ekonomiczna przedsiębiorstw a zrównoważony rozwój*, red. H. Klimek, T. Nowosielski, Polskie Towarzystwo Ekonomiczne Oddział w Gdańsku, Gdańsk 2013.<br><br>6. B. Pawłowska, *Zrównoważony rozwój transportu na tle współczesnych procesów społeczno-gospodarczych*, Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2013.<br><br>7. *Transport. Nowe wyzwania*, red. K. Wojewódzka-Król, E. Załoga, PWN, Warszawa 2016.<br><br>8. B. Pawłowska, *Koszty zewnętrzne transportu w Polsce*, "Przegląd Naukowy Inżynieria i Kształtowanie Środowiska", 2018, nr 1.<br><br>9. A. Koźlak, B. Pawłowska, *Ekoinnowacje jako przejaw społecznej odpowiedzialności biznesu przedsiębiorstw transportowych*, "Studia Ekonomiczne" Zeszyty Naukowe Uniwersytetu Ekonomicznego w Katowicach, 2017, nr 332.<br><br>10. E. Czermański, *Morska żegluga kontenerowa a zrównoważony rozwój transportu*, Wydawnictwo Instytutu Transportu i Handlu Morskiego Uniwersytetu Gdańskiego, Gdańsk 2019.<br><br>11. E. Gostomski, T. Nowosielski, *Międzynarodowy handel morski*, Wydawnictwo Uniwersytetu Gdańskiego, Gdańsk 2020. |
| | Supplementary literature | 1. E. Czermański, B. Pawłowska, A. Oniszczuk-Jastrząbek et al., *Decarbonization of maritime transport: analysis of external costs*, "Frontiers in Energy Research", 2020, vol. 8.<br><br>2. E. Gostomski, T. Nowosielski, *Kierunki rozwoju międzynarodowego transportu morskiego w XXI wieku*, "Pieniądze i Więź", 2019, nr 2.<br><br>3. D. Rucińska, *Promocja zrównoważonego rozwoju transportu - wybrane przykłady dobrych praktyk*, "Logistyka", 2014, nr 2. |
| | eResources addresses | |

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| Example issues/ example questions/ tasks being completed | 1. Threats to the marine environment.<br>2. Sources of pollution of the marine environment.<br>3. Activities of shipowners to combat pollution of the marine environment.<br>4. Activities of seaports to combat pollution of the marine environment.<br>5. Actions of the international community to combat threats to the marine environment. |
| Work placement | Not applicable |

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