University of Gdańsk

Subject card

Subject name and code	IT in Maritime Transport and Seaborne Trade, PG_00199701		
Field of study	International Economic Relations		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2026/2027
Education level	Master's studies	Subject group	Obligatory subject group in the field of study 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	1	Language of instruction	Polish Polish
Semester of study	2	ECTS credits	1.0
Learning profile	academic	Assessment form	exam
Conducting unit	Faculty of Economics -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	mgr Jakub Jankiewicz	
	Teachers	mgr Jakub Jankiewicz	

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	15.0	0.0	5.0	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
Number of study hours	20	0.0	5.0	25

Subject objectives

The purpose of the course is to prepare students to participate in the transportation service of maritime trade cargoes. Wclasses are attended by representatives of business practice, enterprises: shipowner, shipping company, container terminal operator port container terminal and the company developing the concept of port community system.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[MSGMU2_U10] can accurately select and use sources of information on international economic relations, evaluate, critically analyse and creatively interpret them, and can present them in an innovative way, using advanced information and communication techniques	The student is able to utilise and interpret existing sources of information and to present the functioning of various information and IT systems appropriately; the student has the opportunity to seek advice on the subject matter and prepares a final project	[SU2] presentation/project/paper/ report [SU5] implementation of a problem task
[MSGMU2_W09] has a knowledge of selected areas of the functioning of a modern enterprise in the national and international environment; understands the conditions, principles and consequences of decisions taken in its structures aiming at the development, and the dependencies among enterprises on the international market	The student has knowledge of how information and IT systems operate within maritime enterprises and understands the rationale for their implementation	[SW2] presentation/project/paper/ report [SW5] implementation of a problem task

<table>
<tr><td>Subject contents</td><td>1. basic definitions related to the operation of information systems in the transport industry. Case studies -.presentations of existing IT/TSL industry applications and programs on the market.2. CRM systems used in companies operating in the maritime transport services market. CRM systems -.characteristics, features, areas that must be included in the system used by Port Authorities, shipowners,shipping companies, etc.3. Types and classes of information systems typical for the transport industry including systems of the customs service in PL.4. technologies and systems used in maritime transport - AIS, VTS. GTIN standards, RFID, GPS.5. PCS - Port Community System. Characteristics of the system, examples of use, prospects for implementation in Polishports.6. practical exercises with the use of freight calculators and information, contained on the official websiteswebsites of shipowners and shipping companies - presentation of freight calculators for LCL and FCL shipments,searching and comparing departure dates and transport times offered by shipowners.7. software, used for planning the arrangement of containers on ships, such as Container Stowage PlanningSoftware, Ro-Ro Stowage planning, SPS for RoRo Cargo, SPS for General Cargo - systems characteristics.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>Basic knowledge of how the Internet works</td></tr>
<tr><td>Assessment methods and criteria</td><td><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Final project</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>1. Kisielnicki J.,Systemy informatyczne zarządzania, Agencja wydawnicza Placet, Warszawa, 2014 2.Adamczewski P., Informatyczne wspomaganie łańcucha logistycznego, Wydawnictwo Akademii Ekonomicznej w Poznaniu, Poznań 2001.3.Majewski J., Informatyka dla Logistyki, Biblioteka logistyka, Poznań, 2006. Literatura uzupełniająca: 1.Rutkowski (red.), Logistyka on-line, PWE, Warszawa 2003. 2.Skowronek Cz., Sarjusz-Wolski Z., Logistyka w przedsiębiorstwie, PWE, Warszawa 1999.</td></tr><tr><td>Supplementary literature</td><td>1.Dębicka O., Kreft K., Wach D., Internet technologies in transport management, Prace Naukowe Politechniki Warszawskiej, Warszawa, 2007</td></tr><tr><td>eResources addresses</td><td></td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td>Marine environmental protection standards arising from the provisions of the 1992 Helsinki Convention.
Rules governing the carriage of crude oil and its derivatives set out in the International Convention for the Prevention of Pollution from Ships (MARPOL).
Requirements relating to the operation of green seaports and trends in the sustainable development of point-source maritime infrastructure.</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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