



**GDYNIA MARITIME UNIVERSITY**  
**Management and Quality Science**



## SYLLABUS

Code	Course	In English	<b>MARITIME LOGISTICS</b>
		In Polish	<b>LOGISTYKA MORSKA</b>

Field of study	<b>Maritime Business and Management</b>
Specialization	-
Level	<b>first-degree (bachelors')</b>
Form	<b>full time</b>
Profile	<b>general academic</b>
Status of the course	<b>compulsory</b>
Rigour	<b>exam</b>

Term of studies	ECTS	Number of hours per week				Number of hours per term			
		Lec.	Ex.	Lab.	Proj.	Lec.	Ex.	Lab.	Proj.
III	3	2	1			30	15		
<b>Total number of hours</b>						<b>45</b>			

### Prerequisites for knowledge, skills and other competencies

Basic knowledge of logistics management and the functioning of shipping and sea ports.

### Objectives of the course

Learning about key solutions used in maritime logistics.

Learning about modern models of management of ports and marine terminals in maritime logistics concept.

Obtaining the competence to analyze and evaluate solutions implemented in the maritime logistics.

### Learning outcomes for the course (EKP)

Symbol EKP	After completing the course the student:	Reference to the learning outcomes for the field of study
EKP_01	has knowledge about the Maritime Logistics concept implemented in modern supply chain.	NK_W02, NK_U02, NK_K01
EKP_02	can identify influence ports and terminals on efficiency of maritime logistics. Analyzes and assesses the impact of ports and terminals on the operational efficiency of maritime logistics.	NK_W02, NK_U03, NK_K01
EKP_03	can identify influence shipping on maritime logistics. Analyzes and assesses the impact of shipping on the operational efficiency of maritime logistics.	NK_W02, NK_U03, NK_K01
EKP_04	can identify influence freight forwarders on maritime logistics. Analyzes and assesses the impact of freight forwarders on the operational efficiency of maritime logistics.	NK_W02, NK_U03, NK_K01
EKP_05	has knowledge about the new technologies (digitalization, big data, automation, robotization, Internet of Things and artificial intelligence) and their influence on maritime logistics. Is able to understand mechanism of impact new technologies on maritime logistic development.	NK_W09, NK_U07, NK_K01

EKP_06	can identify impact regulations and International Organizations on efficiency and effectiveness of maritime logistics. Analyzes and assesses the impact different regulations on maritime logistics.	NK_W06, NK_U02, NK_K01
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Course content	Number of hours				References to EKP
	Lec.	Ex.	Lab.	Proj.	
Introduction to the concept of maritime logistics. The definition, scope, role and functioning of maritime logistics in the global economy. Maritime logistics versus Supply Chain.	2				EKP_01
The importance of ports and terminals for maritime logistics. Analysis of the impact of ports and terminals technologies on the efficiency of maritime logistics.	6	3			EKP_02
The importance of shipping for maritime logistics. Analysis of the impact of shipping transport technologies on the efficiency of maritime logistics.	6	3			EKP_03
The importance of freight forwarding for maritime logistics. Analysis of the impact of freight forwarding solutions on the efficiency of maritime logistics.	4	3			EKP_04
The impact of new technologies of the triad of maritime logistics entities on the development of maritime logistics. In particular, the impact of new technologies (digitalization, big data, automation, robotization, Internet of Things and artificial intelligence) on the development of traditional and avant-garde maritime logistics will be discussed.	8	4			EKP_05
The importance of maritime sector regulations for the functioning of maritime logistics. Review of the regulatory system and law affecting the safety of maritime logistics. The influence of international maritime and labor organizations on the functioning of maritime logistics.	4	2			EKP_06
Total number of hours	30	15			

Methods of verification of learning outcomes for the course									
EKP Symbol	Test	Oral exam	Written exam	Colloquium	Report	Project	Presentation	Practical assessment	Other
EKP_01	x			x					
EKP_02	x			x			x		
EKP_03	x			x			x		
EKP_04	x			x			x		
EKP_05	x			x			x		
EKP_06	x			x			x		

**Criteria for passing**

Obtaining a positive grade from the lecture confirms that the intended learning outcomes have been achieved. The condition for passing the lecture material is passing the test (at least 60% of possible points).

**Student workload**

Form of activity	Estimated number of hours to complete the activity			
	Lec.	Ex.	Lab.	Proj.
Contact hours	30	15		
Reading literature	8	8		
Preparation for class, laboratory, project		8		
Preparation for the exam/ passing the course	4	6		
Project/report/presentation preparation		4		
Participation in pass tests and exams	2			

Participation in the consultation hours	4	4	
Total number of hours	48	45	
<b>Summary number of hours for the course</b>	<b>93</b>		
<b>ECTS credits</b>	<b>3</b>		
	<b>Number of hours</b>	<b>ECTS</b>	
Student workload associated with practical activities	45	1	
Student workload for course requiring the presence of lecturers and students	55	2	

<b>Basic literature</b>
Song, Dr. David H.; Neligan, Peter C., MB., Maritime Logistics, Publisher Kogan Page Ltd, 2021. Y. H. Książyc Wenus , Kee-hung Lai , T. C. Edwina Chenga , Dong Yang, Shipping and logistics management, Publisher Springer, 2023. S. Haugen, S. Kristiansen, Maritime Transportation, Publisher Taylor & Francis Ltd., 2022. Eon-Seong Lee, Dong-Wook Son, Maritime Logistics Value in Knowledge Management, Routledge, 2014 Knight T., Maritime Economics: Management and Marketing, Routledge, 2013. Dong-Wook Song, Photis Panayides, Maritime Logistics: Contemporary Issues, Emerald Group Publishing, 2012. Maritime logistics. A complete guide to effective shipping and port management, Edi. D-W Song, P.M. Panayides, KoganPage, UK 2012. M. Stopford, Maritime Economics, Publisher Routledge, 2009.
<b>Additional literature</b>
R. Marek, Changes in the technology of moving containers inside sea container terminals: from conventional to automated technology, 2021, <a href="https://www.researchgate.net/publication/354920672_Robert_Marek_Changes_in_the_technology_of_moving_containers_inside_sea_container_terminals_from_conventional_to_automated_technology">https://www.researchgate.net/publication/354920672_Robert_Marek_Changes_in_the_technology_of_moving_containers_inside_sea_container_terminals_from_conventional_to_automated_technology</a> R. Marek, Development of the polish port community system, 2018, <a href="https://www.researchgate.net/publication/327887973_DEVELOPMENT_OF_THE_POLISH_PORT_COMMUNITY_SYSTEM">https://www.researchgate.net/publication/327887973_DEVELOPMENT_OF_THE_POLISH_PORT_COMMUNITY_SYSTEM</a> R. Marek, The analysis of five competitive forces of Maritime Container Terminal Industry based on Polish Market, 2018, <a href="https://www.researchgate.net/publication/330637285_THE_ANALYSES_OF_THE_POLISH_MARINE_CONTAINER_TERMINAL_MARKET_BASED_ON_PORTER'S_MODEL_OF_FIVE_COMPETITIVE_FORCES">https://www.researchgate.net/publication/330637285_THE_ANALYSES_OF_THE_POLISH_MARINE_CONTAINER_TERMINAL_MARKET_BASED_ON_PORTER'S_MODEL_OF_FIVE_COMPETITIVE_FORCES</a> R. Marek, Marine container terminal complexity, 2019, <a href="https://www.researchgate.net/publication/337901224_Marine_Container_terminal_complexity">https://www.researchgate.net/publication/337901224_Marine_Container_terminal_complexity</a> A.S. Grzelakowski, Pricing strategy of the leading container shipping carriers under the turbulent freight market and its impact on logistics supply chains, an analytical approach, 2023, <a href="https://www.researchgate.net/publication/372882772_Pricing_Strategy_of_the_Leading_Container_Shipping_Carriers_under_the_Turbulent_Freight_Market_and_its_Impact_on_Logistics_Supply_Chains_an_Analytical_Approach">https://www.researchgate.net/publication/372882772_Pricing_Strategy_of_the_Leading_Container_Shipping_Carriers_under_the_Turbulent_Freight_Market_and_its_Impact_on_Logistics_Supply_Chains_an_Analytical_Approach</a> A.S. Grzelakowski, A. Karaś, Queuing theory as an instrument of optimization operational and economic sphere of port terminal – case study, 2022, <a href="https://www.researchgate.net/publication/364133932_Queueing_theory_as_an_instrument_of_optimization_operational_and_economic_sphere_of_port_terminals_-_case_study">https://www.researchgate.net/publication/364133932_Queueing_theory_as_an_instrument_of_optimization_operational_and_economic_sphere_of_port_terminals_-_case_study</a> A.S. Grzelakowski, J. Herdzik, S. Skiba, Maritime shipping decarbonization: Roadmap to meet zero-emission target in shipping as a link in global sepply chain, 2022, <a href="https://www.researchgate.net/publication/362911806_Maritime_Shipping_Decarbonization_Roadmap_to_Meet_Zero-Emission_Target_in_Shipping_as_a_Link_in_the_Global_Supply_Chains">https://www.researchgate.net/publication/362911806_Maritime_Shipping_Decarbonization_Roadmap_to_Meet_Zero-Emission_Target_in_Shipping_as_a_Link_in_the_Global_Supply_Chains</a>

<b>Person responsible for the course</b>	PhD Robert Marek	KLiST
<b>Other persons engaged in the course</b>	PhD Sławomir Skiba	KLiST
	MSE Adriana Karaś	KLiST