

Course title		Seaports and Shipping in Supply Chains					ECTS code		14.3.EE.SL.3561		
							ECTS credits		3		
Name of unit administrating study		KTiHM	Field of study		Economics		Field of specialisation		L&M;		
Teaching staff		Ernest Czermański, Habilitated doctor									
Number of hours											
Lectures	15	Classes	0	Tutorials	0	Laboratory	0	Seminars	0	Language classes	0
Forma aktywności							Year&Type of studies*		2 SS2,		
Hours with the participation of the academic teacher (including office hours, exams, others):							Semester:		4,		
Hours without the participation of the academic teacher (student's self-study, homeworks):							Type of course:		obligatory		
Total number of hours:						0	Language of instruction:		English		
Teaching form		in-class learning									
Teaching methods		Lectures including multimodal presentations, Case studies,									
Prerequisites (required courses and introductory requirements)											
Required courses		Positively assessed following lectures & classes: macroeconomics, International economics, Supply Chain Management and Transport in Logistics.									
Introductory requirements		Basics of transport services and operations, international trade relations, economic interdependencies analysis.									
Assessment method, forms and criteria											
Assessment method		Course completion (graded)									
Assessment criteria		Final test - 20 points									
		Final marks assignment:									
		11 - 12: satisfactory (3)									
		13 - 14: satisfactory plus (3+)									
		15 - 16: good (4)									
		17 - 18: good plus (4+)									
		19 - 20: very good (5)									
Course objectives											
Maritime transport accounts for 90% of the weight of cargo transported annually between trading parties worldwide. Seaports are key hubs in this transport with transshipment, warehousing & storage, and also industrial functions. Furthermore, top seaports are global logistics centers where value-added services are carried out on cargo.											
The course will provide the student with an in-depth knowledge of the current state of maritime logistics, which consists of both the maritime section performed by sea vessels and the seaport in its broadest sense, within which the terminals and companies operating there provide the services required by shippers.											
For the introductory purpose, the lecture will begin with the global perspective of the seaborne trade and an in-depth analysis of global conditions for service providers, such as economic growth, environmental issues limiting marine-based human activity, and technology implications. Further on, the student will receive the most recent knowledge on the shipping market status presented in major global indicators, as well as on the capacity of shipping by analyzing the current fleet. Further, the seaport services market will be presented with detailed characteristics of economic and technical functions represented by a wide range of services provided in seaports. Complementary to this will be presented also roles of a seaport in supply chains from a global logistics provider. Next lectures will focus on specific segments of shipping and seaport services, where the criteria of the perspective are the cargo itself: the student will learn about the major transportation unit - the container and all related phases of its handling onboard and in the terminal, including also intermodal, multimodal and combined transport patterns. Some innovative solutions on the last mile delivery are also foreseen. An extension of the first segment is the short sea shipping industry and ferry shipping as intermodal chains referring to trucks and trailers. Next will be presented the supply chain of raw material based on maritime industry as one of the major types of cargo in terms of volumes and importance for the global economy. Last, but not least, the same scheme will be used for petroleum supply chain presentation.											

As cross-cutting issues will be presented to the group the safety & security matters, as well as digitalization challenges and risks involved in the shipping.

Learning outcomes		
Knowledge	E2_W02	Student has an in-depth knowledge of various types of existing economic entities and organizations acting on the maritime transport market, as well as an extended knowledge of public institutions regulating maritime sector
	E2_W07	Student has an in-depth knowledge of economic and financial principles governing the functioning and management of maritime business, as well as of systems of legal, organizational, professional, moral and ethical norms and rules organizing public structures and institutions, both in the national and international spheres, all in the maritime transport sector

Verification of learning outcomes - Knowledge											
Outcomes	written exam	oral exam	test	essay/paper /portfolio	tasks/ homeworks	individual presentation	group presentation	classroom activities	classroom discussion	individual project	group project
E2_W02			X								
E2_W07			X								
Attitudes	Student is ready to observe and develop in his/her professional life principles of business ethics and corporate social responsibility, respect others, be loyal to their employer, taking into account changing social needs with special regard to the specific conditions ruling in the maritime transport sector										

Verification of learning outcomes - Attitudes											
Outcomes	written exam	oral exam	test	essay/paper /portfolio	tasks/ homeworks	individual presentation	group presentation	classroom activities	classroom discussion	individual project	group project
E2_K06								X	X		

Course contents											
<ol style="list-style-type: none"> World seaborne trade and global maritime conditions for seaport and shipping services Shipping market analysis Ports of the world - services and roles in global supply chains Maritime container supply chains Short sea shipping and ferry lines Raw materials supply chains Petroleum supply chains 											

Recommended reading lists											
<ol style="list-style-type: none"> E. Czermański, G.T. Cirella, Energy transition in maritime transport: solutions and costs, [in:] Human Settlements: urbanization, smart sector development, and future outlook, ed. by G.T. Cirella, Advances in 21st Century Human Settlements, Springer, Singapore 2022. E. Czermański, A. Oniszczyk-Jastrzębek, J. Zaucha et al., Preconditions of new container terminal location in the Maritime Spatial Planning framework. A case study for the Central Port Concept in Gdańsk, Marine Policy, 2021, vol. 130, no. 104585. E-book on combined transport in the Baltic Sea Region, ed. by E. Czermański, University of Gdańsk Press, Gdańsk 2021. J. Jankiewicz, E. Czermański, G.T. Cirella, Innovative last mile solutions to strengthen combined transport, report from the COMBINE project, Gdańsk 2020. E. Czermański, B. Pawłowska, A. Oniszczyk-Jastrzębek, G.T. Cirella, Decarbonization of maritime transport: analysis of external costs, Frontiers in Energy Research, 2020, vol. 8, no. 28. 											



6. E. Czernański, Polish maritime economy - current condition and future development perspectives, [in:] Smart, sustainable and inclusive growth, ed. by Ch. True, E. Gostomski and B. Jędrzejewski, University of Gdańsk Press, Gdańsk 2018.
7. A. Oniszczyk-Jastrzębek, B. Pawłowska, E. Czernański, Polish sea ports and the Green Port concept, SHS Web of Conferences, 2018, vol. 57, no. 01023.
8. Port economics, ed. by K. Cullinane, W. K. Talley. Elsevier, Amsterdam 2006.
9. A. E. Branch, Branch's Elements of shipping, Routledge, London - New York 2014.
10. The World of Shipping, ed. by D. M. Williams, Routledge, London - New York 2020.
11. I. Theotokas, Management of Shipping Companies, Routledge, London - New York 2018.
12. M. G. Burns, Port Management and Operations, Routledge, London - New York 2015.
13. Review of Maritime Transport, UNCTAD, Geneva 2021.
14. Shipping Statistics Yearbook, ISL, Bremen 2021.

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* SS1- undergraduate studies * SS2 - graduate studies * SDang - doctoral studies
** MSG - International Economic Relations