

Subject card

Subject name and code	Proecologic Trends in Transport, PG_00015413						
Field of study	Economics						
Date of commencement of studies	October 2023	Academic year of realisation of subject			2024/2025		
Education level	Bachelor's studies	Subject group					
Mode of study	full-time studies	Mode of delivery			at the university		
Year of study	2	Language of instruction			Polish		
Semester of study	4	ECTS credits			2.0		
Learning profile	academic	Assessment form			credit		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Aleksandra Gus-Puszczewicz				
	Teachers		dr hab. Ryszard Rolbiecki, prof. UG				
			dr Aleksandra Gus-Puszczewicz				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	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	30		0.0		0.0	30
Subject objectives	The aim of the course is to provide students with knowledge about the importance of the environmental aspect in the process sustainable development of transport and indication of pro-ecological trends in this sector of the economy. The item has also aimed at developing social competences in teamwork in resolving dilemmas related to...implementing pro-ecological solutions in transport.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
		The student is able, based on the scientific discipline of economics, to use basic theoretical knowledge and obtain data to analyze the scope of technological solutions used in the development of infrastructure and rolling stock in transport; The student is able to correctly interpret and explain economic and social phenomena, analyze their causes, course and connections between these phenomena and natural environment, using our knowledge of economics, finance and international economic relations; The student is able to prepare socio-economic projects reflecting the impact transport sector on the natural environment, guided by knowledge of legal regulations and the principles and criteria of the idea of sustainable development; The student has advanced knowledge of the nature of social sciences, their place in the system of sciences, knows the role of environmental protection in this system and uses universal economic terminology; The student knows various economic and social ties, especially those related to social issues corporate responsibility in the transport sector, according to which companies in they voluntarily take into account social interests and environmental aspects in their activities	[SW2] presentation/project/paper/report [SW5] implementation of a problem task [SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SK2] presentation/project/paper/report
Subject contents	1. The essence of sustainable development of the transport system 2. Environmentally friendly branches on the example of inland water transport 3. Ecological trends in the development of linear and point infrastructure in individual modes of transport Means of transport in modes of transport: development of ecological means of transport and transport technologies in individual modes of transport 4. Development of inter-industry technology Intelligent transport systems		
Prerequisites and co-requisites	Knowledge of basic economics, transport and ecology is required		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	tasks	51.0%	30.0%
	projekt	51.0%	30.0%
	presentation	51.0%	40.0%

Recommended reading	Basic literature	1. Transport. Tendencje zmian, pod red. K. Wojewódzkiej-Król, E. Załoga, PWN, Warszawa 2022; 2. Innowacje w transporcie, pod red. K. Wojewódzkiej-Król, PWN, Warszawa 2024; 3. A. Gus-Puszczewicz, Kompleksowe zagospodarowanie dolnej Wisły w świetle idei zrównoważonego rozwoju, Wydawnictwo UG, Gdańsk 2024, 4. R. Rolbiecki, K. Wojewódzka-Król, A. Gus-Puszczewicz, Transport wodny śródlądowy w zrównoważonym rozwoju, Wydawnictwo UG, Gdańsk 2020; 5. Europejski Zielony Ład, Komisja Europejska, Bruksela, dnia 11.12.2019 r., Com(2019) 640 final; 6. B. Pawłowska, Zrównoważony rozwój transportu na tle współczesnych procesów społeczno-gospodarczych, Wydawnictwo UG, Gdańsk 2013;
	Supplementary literature	1. K. Wojewódzka-Król, Dylematy zrównoważonego rozwoju infrastruktury transportu w Polsce, [w:] Rozwój i funkcjonowanie transportu w świetle zrównoważonego rozwoju, pod red.: R. Rolbieckiego, Zeszyty Naukowe Uniwersytetu Gdańskiego Ekonomia Transportu i Logistyka, Wydawnictwo UG, Gdańsk 2017, nr 63; 2. A. Gus-Puszczewicz, "Europejskie dobre praktyki" jako narzędzie eliminacji wąskich gardeł na śródlądowych drogach wodnych, [w:] Wybrane problemy gałęzi transportu, pod red.: R. Rolbieckiego, Zeszyty Naukowe Uniwersytetu Gdańskiego Ekonomia Transportu i Logistyka, Wydawnictwo UG, Gdańsk 2014, nr 50; 3. A. Gus-Puszczewicz, Wybrane wskaźniki zrównoważonego rozwoju, [w:] Aktualne problemy rozwoju transportu i logistyki, pod red.: R. Rolbieckiego, Zeszyty Naukowe Uniwersytetu Gdańskiego Ekonomia Transportu i Logistyka, Wydawnictwo UG, Gdańsk 2013, nr 47;
	eResources addresses	
Example issues/ example questions/ tasks being completed	Development and implementation of ecological technologies in transport Policies and regulations supporting sustainable transport Challenges and the future of sustainable transport The future of transport: innovations and visions for the coming decades	
Work placement	Not applicable	

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