

Subject card

Subject name and code	Rail Transport, PG_00019906						
Field of study	Economics						
Date of commencement of studies	October 2023		Academic year of realisation of subject		2025/2026		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study Optional subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		Polish Polish		
Semester of study	6		ECTS credits		2.0		
Learning profile	academic		Assessment form		credit		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Marcin Wolek				
	Teachers		dr hab. Marcin Wolek				
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 familiarize the student with the specifics of how the rail transport market functions in Poland and in the EU, with an emphasis on the regulatory and infrastructural spheres, as well as passenger and freight transport. An important aspect is also to acquaint the student with selected economic and financial tools used in the process of constructing and modernizing railway infrastructure and in rolling stock procurement (including CBA and TCO Total Cost of Ownership).						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[EKONL3_W08] has knowledge of the processes of changing elements, enterprises and whole structures of economic organisations, as well as the processes of changing social institutions, knows what their causes, course, scale, consequences are and what the influence of external stakeholders is on them	The student has knowledge of the processes of change taking place in the rail transport market in Poland and the EU with regard to both the supply side (infrastructure, rolling stock, and organization) and the demand side. The student is able to identify the causes, course, scale, and consequences of changes occurring in the rail transport market, and to assess the impact of external stakeholders on these changes.	[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report
	[EKONL3_U03] is able to analyse the causes and course of specific economic and social processes and phenomena, and accurately analyse these phenomena using adequate methods and tools economic and social	The student is able to analyze the causes and course of specific economic processes and phenomena in the rail transport market, and to accurately examine these phenomena using appropriate economic and social methods and tools.	[SU1] oral statement/conversation/discussion [SU2] presentation/project/paper/report [SU5] implementation of a problem task
	[EKONL3_K04] is willing to think and act in an entrepreneurial manner; adapts to new situations and conditions, takes on the challenges of creative thinking, is resilient in the face of failure, is able to identify risks and assess the risks of failure	The student is prepared to think and act in an entrepreneurial manner with regard to the key stakeholders of the rail transport market—the market regulator (UTK), infrastructure managers (primarily PKP PLK S.A.), and freight and passenger operators.	[SK1] oral statement/conversation/discussion [SK2] presentation/project/paper/report [SK5] implementation of a problem task
Subject contents	The development process of rail transport in Poland and worldwide. Rail transport as a sector of the economy. Geopolitical aspects of rail transport development. European policy toward rail transport. Rail transport infrastructure selected economic and technical aspects of construction, maintenance, and modernisation. Railway rolling stock selected economic and operational aspects of procurement, maintenance, and modernisation. Organisation of rail transport timetable planning. The specifics of passenger rail transport operations. Freight transport in the rail transport market. Costbenefit analysis in investments in the rail transport market. The regional (voivodeship) government is the organiser of rail transport in the region. The competitiveness of rail transport in intercity services.		
Prerequisites and co-requisites	Basic knowledge of macroeconomics, geography and marketing.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Final presentation	70.0%	65.0%
	Attendance rate	80.0%	35.0%

Recommended reading	Basic literature	J. Engelhardt: Ekonomia inwestycji infrastrukturalnych i taborowych w sektorze kolejowym wybrane zagadnienia. Wyd. Uniwersytetu Szczecińskiego, Szczecin 2023 S. Miecznikowski, T. Radzikowski, M. Wołek: Stan i potencjał rozwojowy kolejowych korytarzy intermodalnych w Polsce w kontekście Inicjatywy Pasa-Drogi. Wyd. Uniwersytetu Gdańskiego, Gdańsk 2021 A. Massel: Metody i narzędzia oceny wykorzystania infrastruktury transportowej na przykładzie badań infrastruktury kolejowej krajów Europy Środkowo-Wschodniej w latach 1989-2019. Wydawnictwo Naukowe Instytutu Kolejnictwa, Warszawa 2020
	Supplementary literature	selected papers published in the journal Transport Miejski i Regionalny
	eResources addresses	
Example issues/ example questions/ tasks being completed	• The premises for segmenting the rail transport market. • Advantages and disadvantages of rail transport in containerized freight. • The specifics of suburban/urban (agglomeration) railways. • The application of Total Cost of Ownership in the analysis of rolling stock procurement. • Factors determining the competitive advantage of rail transport over air transport.	
Work placement	Not applicable	

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