



Subject card

Subject name and code	Railway transport safety management, PG_00062460						
Field of study	Transport						
Date of commencement of studies	February 2024		Academic year of realisation of subject		2024/2025		
Education level	second-cycle studies		Subject group		Specialty 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	2		Language of instruction		Polish		
Semester of study	3		ECTS credits		3.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department Of Transportation Engineering -> Faculty Of Civil And Environmental Engineering -> Wydziały Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Sławomir Grulkowski				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	15.0	15.0	0.0	45
	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	45		5.0		25.0	75
Subject objectives	The aim of the course is to familiarize the student with the principles and procedures of the safety management system and the maintenance management system in relation to the railway system.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_U01] creates innovative solutions to complex and unstructured problems, taking into account the variability of the environment by synthesizing information from many sources, using analytical, simulation and experimental methods		The student is able to apply knowledge about the structures and functions of the transport system to solve specific problems. The student is able to apply appropriate methods of managing the investment process		[SU2] Assessment of ability to analyse information [SU1] Assessment of task fulfilment		
	[K7_K02] makes competent and ethical decisions, caring for the public interest and maintaining economic, social and environmental values		The student understands the specifics of managing transport systems. He is able to classify values resulting from transport management.		[SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice		
	[K7_W02] explains the importance and interdependence of key components describing transport systems and processes and their environment, using in-depth knowledge in accordance with the main trends in the development of scientific disciplines related to the field of study		The student is able to classify and identify risk. Is able to evaluate risk. Finds ways to reduce risk		[SW1] Assessment of factual knowledge		
Subject contents	Railway accident statistics, Accident classification. Safety Management System. Common Safety Methods. Risk valuation and assessment methods. Risk monitoring. Maintenance Management System. Institutional activities in the field of rail transport safety						
Prerequisites and co-requisites	Ability to identify risks. Risk reduction principles						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Tasks to be done		50.0%		50.0%		
	Final Test		50.0%		50.0%		

Recommended reading	Basic literature	<p>Directive (EU) 2016/798 of the European Parliament and of the Council of 11 May 2016 on railway safety</p> <p>Commission Implementing Regulation (EU) No 402/2013 of 30 April 2013 on the common safety method for risk evaluation and assessment and repealing Regulation (EC) No 352/2009</p> <p>Commission Delegated Regulation (EU) 2018/762 of 8 March 2018 establishing common safety methods on safety management system requirements pursuant to Directive (EU) 2016/798 of the European Parliament and of the Council and repealing Commission Regulations (EU) No 1158/2010 and (EU) No 1169/2010</p>
	Supplementary literature	Safety management system requirements for safety certification or safety authorisation
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	<p>Risk Analysis Procedures</p> <p>Creating a Risk Catalog</p> <p>Risk Assessment</p>	
Work placement	Not applicable	

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