



Subject card

Subject name and code	Railway transport safety management, PG_00062460										
Field of study	Transport										
Date of commencement of studies	February 2025		Academic year of realisation of subject		2025/2026						
Education level	second-cycle 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	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 -> Faculties of Gdańsk University of Technology										
Name and surname of lecturer (lecturers)	Subject supervisor Teachers		dr inż. Sławomir Grulkowski								
Lesson types	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			[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information					
	[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					
	[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.			[SK5] Assessment of ability to solve problems that arise in practice [SK1] Assessment of group work skills					
Subject contents	Course content – lecture 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	
Example issues/ example questions/ tasks being completed	<p>Risk Analysis Procedures</p> <p>Creating a Risk Catalog</p> <p>Risk Assessment</p>	
Practical activites within the subject	Not applicable	

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