



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				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 -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Sławomir Grulkowski					
	Teachers						
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						
	eNauczanie source addresses: Moodle ID: 4442 Zarządzanie bezpieczeństwem transportu kolejowego - 3T_II_SRK https://enauczanie.pg.edu.pl/2025/course/view.php?id=4442						
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 activities within the subject	Not applicable		

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