

Subject card

Subject name and code	Diagnostics of railways, PG_00044674							
Field of study	Transport							
Date of commencement of studies	October 2021		Academic year of realisation of subject			2023/2024		
Education level	first-cycle studies		Subject group			Optional 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	3		Language of instruction			Polish		
Semester of study	6		ECTS credits			4.0		
Learning profile	general academic profile		Assessment form			exam		
Conducting unit	Department of Railway Engineering -> Faculty of Civil and Environmental Engineering							
Name and surname	Subject supervisor	dr inż. Zbigniew Kędra						
of lecturer (lecturers)	Teachers		dr inż. Zbigniew Kędra					
		dr inż. Kamila Szwaczkiewicz			z			
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
of instruction	Number of study hours	30.0	0.0	0.0	15.0		0.0	45
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity Participation in classes including plan				Self-study		SUM	
	Number of study hours	- '		10.0		45.0		100
Subject objectives	The aim of the course is to familiarize students with the diagnostics of railroads and to teach basic methods and techniques for measuring and assessing the condition of the railroad.							
Learning outcomes	Course outcome		Subject outcome			Method of verification		
	[K6_W18] has proficiency in transport infrastructure as appropriate for their specialty		Has ordered knowledge in the field of railway road diagnostics					
	[K6_U13] able to select tools and methods, carry out assessments and simple tests of transport infrastructure and means of transport to an extent required of the specialty / learning profile		Can select tools and methods as well as carry out simple measurements and assessment of the condition of the railroad					
Subject contents	Railroad diagnostics. Track geometry quality. Diagnostics of railway track elements. Diagnostics of railway turnouts. Diagnostics of the CWR.							
Prerequisites and co-requisites								
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade		
and criteria	Exam		50.0%			50.0%		
	Project		50.0%			50.0%		

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Recommended reading	Basic literature	Warunki techniczne utrzymania nawierzchni na liniach kolejowych ld-1 (D-1) Warunki techniczne utrzymania podtorza kolejowego ld-3			
		warunki techniczne utrzymania podtorza kolejowego id-5			
		Instrukcja o oględzinach, badaniach technicznych i utrzymaniu rozjazdów Id-4			
		Instrukcja diagnostyki nawierzchni kolejowej Id-8			
		Instrukcja o dokonywaniu pomiarów, badań i oceny stanu torów ld-14 (D-75)			
	Supplementary literature	Instrukcja o dozorowaniu linii kolejowych Id-7			
		Instrukcja badań defektoskopowych szyn, spoin i zgrzein w torach kolejowych Id-10 (D-16)			
		Wytyczne ultradźwiękowych badań złączy szynowych zgrzewanych i spawanych Id-17			
		Instrukcja dla toromistrza Id-9 (D-15)			
eResources addresses	Adresy na platformie eNauczanie:				
		Diagnostyka dróg szynowych - Transport - 2023/24 - Moodle ID: 35159 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=35159			
Example issues/ example questions/ tasks being completed					
Work placement	Not applicable				

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