

## Subject card

Subject name and code	Diagnostics of railways, PG_00044674							
Field of study	Transport							
Date of commencement of studies	October 2023		Academic year of realisation of subject			2025/2026		
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							
of lecturer (lecturers)	Teachers				,			
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 is classes included plan  Number of study hours  Participation is classes included plan  45				Self-study SU		SUM	
					45.0 100		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 Id-1 (D-1)  Warunki techniczne utrzymania podtorza kolejowego Id-3  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 Id-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:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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