



Subject card

Subject name and code	Technology of Track Works , PG_00044675						
Field of study	Transport						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2024/2025		
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	4	Language of instruction			Polish		
Semester of study	7	ECTS credits			4.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Transportation Engineering -> Faculty of Civil and Environmental Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Zbigniew Kędra					
	Teachers	dr inż. Zbigniew Kędra					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	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 didactic classes included in study plan	Participation in consultation hours		Self-study		SUM
	Number of study hours	45	10.0		45.0		100
Subject objectives	To acquaint students with technologies repair the tracks and subgrade. The choice of appropriate technology repair, machinery and equipment.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[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	He can select the appropriate technology of railroad repair and plan its execution.			[SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment [SU5] Assessment of ability to present the results of task		
	[K6_W18] has proficiency in transport infrastructure as appropriate for their specialty	The student has an organized knowledge of the applied railway repair technologies.			[SW1] Assessment of factual knowledge		
Subject contents	Maintenance and repair of railway tracks. Mechanization railway works. Grinding rails. Tamping the track. Cleaning of ballast. Welding of rails. Modern machinery for construction and maintenance of railways						
Prerequisites and co-requisites	Railways						
Assessment methods and criteria	Subject passing criteria	Passing threshold			Percentage of the final grade		
	Project	100.0%			50.0%		
	Exam	50.0%			50.0%		
Recommended reading	Basic literature	Kędra Z.: Technology of rail track works. Wydawnictwo Politechniki Gdańskiej, Gdańsk 2015.					
	Supplementary literature	Information materials machine manufacturers of track. The provisions of railway					

	eResources addresses	Adresy na platformie eNauczenie: Technologia robót torowych - Transport 2024/25 - Moodle ID: 35161 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=35161
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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