GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Technology of Track Works , PG_00044675		
Field of study	Technologia robót torowych		
Date of commencement of studies	October 2022	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	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 -> Wydziały Politechniki Gdańskiej		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Zbigniew Kędra	
	Teachers	dr inż. Zbigniew Kędra	

Lesson types

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

eNauczanie source addresses:

Moodle ID: 2077 Technologia robót torowych 2025/26
https://enauczanie.pg.edu.pl/2025/course/view.php?id=2077

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_W18] has proficiency in transport infrastructure as appropriate for their specialty	The student has an organized knowledge of the applied railway repair technologies.	[SW1] Ocena wiedzy faktograficznej
[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.	[SU5] Ocena umiejętności zaprezentowania wyników realizacji zadania [SU1] Ocena realizacji zadania [SU3] Ocena umiejętności wykorzystania wiedzy uzyskanej w ramach przedmiotu

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

Design a technology for carrying out selected railway repairs.

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	
Example issues/ example questions/ tasks being completed		
Practical activites within the subject	Not applicable	

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