

Subject card

Cubicat name and add	Technology of Track Works, PG, 00041304								
Subject name and code		Technology of Track Works , PG_00041394							
Field of study	Civil Engineering								
Date of commencement of studies	February 2025		Academic year of realisation of subject			2025/2026			
Education level	second-cycle studies		Subject group			Optional subject group			
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 Railway Engineering -> Faculty of Civil and Environmental Engineering								
Name and surname	Subject supervisor		dr inż. Zbigniew Kędra						
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	aboratory Project		Seminar	SUM	
of instruction	Number of study hours	0.0	0.0	0.0	0.0		30.0	30	
	E-learning hours inclu			-				i	
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30	5.0			40.0		75	
Subject objectives	Expanding knowledge of technology trackwork. Discussion of modern machines for of rail track work.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K7_U15] has advanced skills in civil engineering within offered specialization/profile		Is able to plan the implementation of railway works and prepare documentation for the construction and repair of railways			[SU1] Assessment of task fulfilment			
	[K7_W15] has deep and adequate knowlege of civil engineering, within offered specialization and profile		Has structured knowledge in the field of organization and planning of railway works			[SW2] Assessment of knowledge contained in presentation			
	[K7_K01] is aware of necessity of professional competences improvement; obeys the professional ethics code		Understands the need to constantly improve professional qualifications and supplement knowledge in the field of technology and organization of railway works			[SK3] Assessment of ability to organize work [SK5] Assessment of ability to solve problems that arise in practice			
	[K7_K04] understands the necessity of dissemination civil engineering knowlege in the society and to suport the proffesional ethos of a civil engineer		He understands the need to provide the public with knowledge in the field of railway road construction			[SK4] Assessment of communication skills, including language correctness			
	[K7_W08] has deep knowledge of railway track construction, including high speed railroads; design and renovation of railroads of complex geometry; has detailed knowledge about diagnistics of railroads, knows basics of railway traffic organisation and control		Has structured knowledge in the field of construction, repair and modernization of railways			[SW2] Assessment of knowledge contained in presentation			
Subject contents	Maintenance and repair of railway tracks. Mechanization railway works. Grinding rails. Tamping the track. Cleaning of ballast. Welding of rails. Continuous repair of railway track and subgrade. Modern machinery for construction and maintenance of railways. Planning railway works.								
Prerequisites and co-requisites									
Assessment methods	Subject passing criteria		Passing threshold			Per	Percentage of the final grade		
and criteria	Presentation		60.0%			100.0%			

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Recommended reading	Basic literature	Kędra Z.: Technologia robót torowych. Wydawnictwo Politechniki Gdańskiej, Gdańsk, 2015
	Supplementary literature	Publications in journals and conferences.
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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