

Subject card

Subject name and code	Design of Track Layouts, PG_00044237								
Field of study	Civil Engineering								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2023/2024			
Education level	first-cycle studies		Subject group			Optional subject group			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	4		Language of instruction			Polish	Polish		
Semester of study	7		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. Kamila Szwaczkiewicz						
of lecturer (lecturers)	Teachers		dr inż. Kamila Szwaczkiewicz						
			mgr inż. Piotr Omieczyński						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	15.0	0.0	0.0	15.0		0.0	30	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity Participation in classes include plan				Self-study SUM		SUM		
	Number of study hours	30		5.0		40.0		75	
Subject objectives	The aim of subject is obtainment of knowledge and abilities concerning rail surface construction and design of small stations geometric systems.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U17] has specialized skills in civil engineering within offered specialization		The student can prepare the project data and design basic turnout route, calculate number of tracks for small railway stations, calculate overall length of station tracks, design station track layout, design the access to the platforms along with the platforms						
	[K6_W16] Has deeper and adequate knowlege of civil engineering, within offered specialization		The student interprets the geometric and physical parameters describing the geometric systems. The student knows the principles of track layouts designing.						
Subject contents	Railway turnouts design and geometry. Track connections. Track connections shaping and sizing. Railway track junctions design. Railway stations classification. Passenger stations. Goods stations. Marshalling yards. Parking stations. Calculation elements of passenger stations, goods stations and marshalling yards.								
Prerequisites and co-requisites	Railroads								
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade			
	Test		60.0%			51.0%			
	Project		100.0%			49.0%			

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Recommended reading	Basic literature	Massel A.: Projektowanie linii i stacji kolejowych. PKP Polskie Linie Kolejowe, Warszawa 2010.					
		Skibiński K.: Budowa kolei żelaznych : połączenia torów. Cz. 1. Obrachowanie połączeń torów. Nakładem komisji wydawniczej biblioteki politechnicznej. Lwów 1897.					
		3. Chełmecki W.: Stacje kolejowe cz. I. Politechnika Krakowska, Kraków 1997.					
		4. Chełmecki W.: Stacje kolejowe cz. II. Politechnika Krakowska, Kraków 2001.					
	Supplementary literature	1. Cieślakowski S.J.: Stacje kolejowe. WKŁ, Warszawa 1992.					
		2. Węgierski J.: Układy torowe stacji. WKŁ, Warszawa 1974.					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						

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