



Subject card

Subject name and code	Thesis Seminar , PG_00044234						
Field of study	Civil Engineering						
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		
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 Railway Engineering -> Faculty of Civil and Environmental Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor						
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	0.0	45.0	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		5.0		50.0	100
Subject objectives	The aim of the course is to deepen knowledge on the issues of railways based on the literature and in relation to your work diploma.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_K04] understands the necessity of dissemination civil engineering knowlege in the society; shares information about civil engineering in a popular and understandable fashion		The student understands the need for communication to the public knowledge on issues of railways; transmits information to the public in the field of railways in a common and understandable.				
	[K6_U13] knows principles of constrution of roads and railroads; can design a section of a road and railroad; can evaluate the technical condition of a road and railroad infrastructure		A student can design the construction of rail roads and basic track layouts, knows how to interpret basic diagnostic tests; is able to select technology construction and repair of railways.				
	[K6_W16] Has deeper and adequate knowlege of civil engineering, within offered specialization		The student has the ability of presenting the prepared speeches. The student is familiar with modern solutions utilised in railway traffic (railways and trams).				
	[K6_U17] has specialized skills in civil engineering within offered specialization		The student has the ability of presenting the prepared speeches. The student is familiar with modern solutions utilised in railway traffic (railways and trams).				
	[K6_K01] is aware of necessity of professional and personal competences improvement; complements and broadens his knowlege about modern processes and technologies		A student alone complements and extends knowledge in the field of modern processes and technologies in railways.				
Subject contents	Speech of students on the following topics: 1) Characteristics of high-speed rail line (Japan, Germany, France and Italy - and other European countries, including Poland); 2) Construction of the ballastless track structure used in European and Japanese railways; 3) Fastening systems used in Europe; 4) Modern construction of the classic turnouts (in terms of the materials used), and of the turnouts with movable frog; 5) Modern tram track structure used in Poland and in Europe; 6) Diagnostic instruments. New types of rail damages. New catalogue of damages.						
Prerequisites and co-requisites	Not required						

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Presentation	60.0%	40.0%
	Performance of the paper	60.0%	60.0%
Recommended reading	Basic literature	1. The articles and conference papers regarding the subject matter of railways. 2. The materials available on the Internet. 3. The materials delivered by lecturer.	
	Supplementary literature	Not required	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	Thematic scope of papers is very wide and follows its own initiative students.		
Work placement	Not applicable		