



Subject card

Subject name and code	Public transport management, PG_00044653						
Field of study	Transport						
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 -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Krystian Birr				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	15.0	0.0	0.0	0.0	45
	E-learning hours included: 0.0						
	eNauczanie source address: https://enauczanie.pg.edu.pl/moodle/index.php?id=7149						
	Moodle ID: 47389 Zarządzanie transportem zbiorowym 2025 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=47389						
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	The aim of the course is to acquaint students with elements of management and planning for the development of public transport.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_U12] able to select tools and methods, carry out assessments and simple tests of transport systems to an extent required of the specialty / learning profile		Student is able to formulate, evaluate and choose variants of the transport system in the field of public transport design.		[SU1] Assessment of task fulfilment		
	[K6_W17] has proficiency in transport systems as appropriate for their specialty		The student knows the principles of shaping public transport systems, including line and schedule design.		[SW3] Assessment of knowledge contained in written work and projects		
Subject contents	Course content – lecture						
	• Definition of transport network planning tasks • Service market and users • Institutions related to transport management • The structure of the public transport network • Designing a public transport network • Timetable design • Methods and tools for assessing the functioning of public transport • Solutions for public transport infrastructure						
	Course content – exercises						
	• Development and optimisation of the public transport network layout. • Selection of vehicles for service provision. • Preparation of the timetable. • Calculation of operating and user costs. • Analysis, evaluation, and recommendation of variants.						

Prerequisites and co-requisites	Knowledge of concepts and issues related to: • functioning of transport systems, • methods of studying transport behavior of transport system users • methods of road and passenger traffic measurements, • economic dependencies between supply and demand in transport.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Report	50.0%	40.0%
	Exam	60.0%	60.0%
Recommended reading	Basic literature	1. Wyszomirski O.: Transport miejski ekonomika i organizacja, Gdańsk 20072. Dziekan K.: Easy-to-use public transport. Learning from the mistakes of human beings a psychological approach, PhD Thesis 20033. Transport Research Laboratory: The Demand for Public Transport: A Practical Guide, TRL Report 593, 20044. Kołodziejcki H.: Projektowanie rozwoju publicznego transportu zbiorowego w planach transportowych na przykładzie województwa pomorskiego, 20145. Nielsen G., HiTrans: Best practise guide Public transport Planning the networks, HiTrans 20156. Birr K.: Struktury sieci transportu zbiorowego w miastach, 2013	
	Supplementary literature	1. Ustawa z dnia 16 grudnia 2010 r. o publicznym transporcie zbiorowym 2. Ustawa z dnia 16 kwietnia 2004 r. o czasie pracy kierowców	
	eResources addresses		
	Example issues/ example questions/ tasks being completed		
Practical activities within the subject	Not applicable		

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