



Subject card

Subject name and code	, PG_00065282						
Field of study	Transport						
Date of commencement of studies	February 2024	Academic year of realisation of subject			2024/2025		
Education level	second-cycle studies	Subject group					
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			Polish		
Semester of study	2	ECTS credits			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Transportation Engineering -> Faculty of Civil and Environmental Engineering						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Marek Pszczoła					
	Teachers	dr hab. inż. Marek Pszczoła dr inż. Łukasz Mejtun					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	15.0	0.0	0.0	0.0	30
	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	30		0.0		0.0	30
Subject objectives	The aim of the subject is to provide a detailed discussion of the elements of airport infrastructure related to the functioning of both the part of the airport related to aircraft operations (runways, taxiways, aprons, hangars, de-icing pads), as well as the part related to passenger traffic (terminals, piers, passenger bridges, parking lots, kiss@fly zones) and others.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K7_U02] presents logical and solid arguments regarding the obtained results, through analysis, synthesis of information in various technical contexts, critically approaching their interpretation	The student makes competent and ethical decisions related to the acquired knowledge regarding elements of airport infrastructure.	[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information
	[K7_U05] cooperates with other people in the implementation of team work, both as a leader and a team member, effectively achieving set goals	The student is able to synthesize information from individual elements of the airport infrastructure. He/she presents logical and sound arguments regarding the obtained results.	[SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools
	[K7_K02] makes competent and ethical decisions, caring for the public interest and maintaining economic, social and environmental values	The student identifies in-depth phenomena related to airport infrastructure, as an essential element related to the functioning of air transport.	[SK1] Assessment of group work skills [SK4] Assessment of communication skills, including language correctness
	[K7_K01] recognizes the importance of knowledge related to the field of study in solving cognitive and practical problems	176 / 5 000 The student recognizes the importance of knowledge related to the field of study in solving cognitive and practical problems in relation to the analysis of airport infrastructure elements.	[SK1] Assessment of group work skills [SK4] Assessment of communication skills, including language correctness
[K7_W01] identifies in an in-depth way phenomena related to the field of study as well as theories describing them and possible methods of analyzing processes occurring in the life cycle of technical systems	The student cooperates with other people in the group in implementing teamwork, both as a leader and a team member, effectively achieving the established goals related to the airport infrastructure.	[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation	
Subject contents	<p>The content of the subject in the scope of the lecture includes:</p> <p>Introduction to the subject of Airport infrastructure, historical development of airports together with the development of air transport means, detailed discussion of individual elements of the airport related to its direct functioning, division of airports depending on the purpose they are to serve (passenger only, cargo only, passenger and cargo), analysis of the design, construction and maintenance of DS, aprons, taxiways, terminals. Organization of airport work, infrastructure development, flexibility, planning.</p> <p>The content of the subject in the scope of exercises:</p> <p>Detailed analysis of the elements of the infrastructure of a selected airport.</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Lecture	55.0%	60.0%
	Practice	60.0%	40.0%
Recommended reading	Basic literature	Pegamon, 2000, Annex 14 to the Convention on International Civil Aviation, Aerodrome Design and Operations, ICAO, 2004, Horonjeff R., McKelvey F.X., Sproule W.J., Young S.B., Planning and Design of Airports, McGraw-Hill Companies, Inc. Fifth Edition, 2010	
	Supplementary literature	Kazda A., Caves E. R., Airport Design and Operation, Wydawnictwo Pegamon, 2000,	
	eResources addresses	Podstawowe https://www.cpk.pl/pl/dla-mieszkancow/program-lotniskowy/infrastruktura-lotniskowa - Infrastructure related to the construction of the Central Communication Port (CPK). Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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