



## Subject card

Subject name and code	, PG_00065156						
Field of study	Civil Engineering						
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			3.0		
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						
Lesson types and methods of instruction	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						
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	0.0		0.0		45
Subject objectives	The aim of the course is to provide knowledge of the construction of individual airport elements, such as: runways, taxiways, aprons, security systems at the airport, airport marking, earthworks, airport pavement constructions.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K7_U06] is able to choose proper tools (measuring, analytical or numerical) to solve engineering problems, to acquire, filtrate, proces and analyse data	Possesses advanced skills in solving problems related to airport construction and engineering data analysis.			[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject		
	[K7_W13] has knowledge on state of the art methods on knowledge acquisition, filtration, processing and analysis	Student has knowledge of current methods of acquiring data in the field of airport construction and their processing and analysis.			[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge		
Subject contents	Lectures: Introduction, basic definitions. ICAO reference code and technical classification of aerodromes. The location of the airport. Number and directions of runways. Designing runways, taxiways, aprons. principles of airport drainage. Earthworks. Airport pavements design. Design: Designing runways, taxiways, parking stands, airport dehydration and airport pavement construction.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold			Percentage of the final grade		
	Design project	60.0%			50.0%		
	Test	60.0%			50.0%		
Recommended reading	Basic literature	Świątecki A., Nita P., Świątecki P., Lotniska. Wydawnictwo Instytutu Technicznego Wojsk Lotniczych, 1999, Kazda A., Caves E. R., Airport Design and Operation, Wydawnictwo Pegamon, 2000, Annex 14 to the Convention on International Civil Aviation, Aerodrome Design and Operations, ICAO, 2004, Rozporządzenie Ministra Transportu i Gospodarki Morskiej z dnia 31 sierpnia 1998r. , nr 859 w sprawie przepisów techniczno-budowlanych dla lotnisk cywilnych					

	Supplementary literature	<p>Nita P., Budowa i utrzymanie nawierzchni lotniskowych, Wydawnictwo Komunikacji i Łączności, 2008</p> <p>Horonjeff R., McKelvey F.X., Sproule W.J., Young S.B., Planning and Design of Airports, McGraw-Hill Companies, Inc. Fifth Edition, 2010</p>
	eResources addresses	<p>Adresy na platformie eNauczanie:</p> <p>Budowa lotnisk - 2024/2025 - Moodle ID: 22530</p> <p><a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=22530">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=22530</a></p>
Example issues/ example questions/ tasks being completed	<p>The reference airport code.Earthworks.ILS system.Drainage of the airport.Construction of the runway pavement.</p>	
Work placement	<p>Not applicable</p>	

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