



Subject card

Subject name and code	, PG_00065156						
Field of study	Civil Engineering						
Date of commencement of studies	February 2025		Academic year of realisation of subject		2025/2026		
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 -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Marek Pszczola				
	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_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.		[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects		
	[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.		[SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools		
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		
	Test		60.0%		50.0%		
	Design project		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	
Example issues/ example questions/ tasks being completed	The reference airport code.Earthworks.ILS system.Drainage of the airport.Construction of the runway pavement.	
Work placement	Not applicable	

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