GDAŃSK UNIVERSITY OF TECHNOLOGY

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

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