



## Subject card

Subject name and code	Organization and control of air traffic , PG_00044651						
Field of study	Transport						
Date of commencement of studies	October 2023		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	3		Language of instruction		Polish		
Semester of study	6		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						
	Teachers						
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		5.0		40.0	75
Subject objectives	Acquire knowledge of flight control, aircraft operations in the airport area, airport operations, air traffic control.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_W17] has proficiency in transport systems as appropriate for their specialty		The student knows the means and methods of air traffic control, the principles of planning air traffic control systems and air pore handling. The student knows the fundamentals of air traffic engineering.				
	[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		Students will be able to evaluate the functioning of an airport and make suggestions for improvements.				
Subject contents	Flight planning. Aircraft operations in the airport area. Airport operations. Air traffic control. Fundamentals of air traffic engineering.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Final test		50.0%		60.0%		
	Workshop part		90.0%		40.0%		
Recommended reading	Basic literature		Malarski M., Inżynieria ruchu lotniczego, OWPW 2006.				
	Supplementary literature		Journals: Transport Miejski i Regionalny, Przegląd Transportowy				
	eResources addresses		Adresy na platformie eNauczanie:				

Example issues/ example questions/ tasks being completed	<p>What factors are taken into account when choosing an airport location. Outline the division of airspace. List and describe handling operations at an airport - in one sentence each. Discuss the causes of aviation accidents and incidents. Present a proposal to improve aviation safety. Discuss the causes of aviation accidents and incidents, in one sentence each. Describe the different types of passenger terminals and their advantages and disadvantages. Give a classification of aviation incidents and give examples (theoretical) of each type listed events. Describe the structure, tasks, responsibilities of Airport Control, Area Control and Approach Control Services. Methods of assessing airport performance. Methods of calculating passenger flow capacity. Aerodrome capacity in air operations. Aerodrome operational readiness. Area control sector capacity. Methods for determining liquidity taking into account so-called beneficial flight plans. Methods for assessing crew status.</p>
Work placement	Not applicable