

STUDY MODULE DESCRIPTION FORM		
Name of the module/subject General flight safety		Code 1010604111010637508
Field of study Aerospace Engineering	Profile of study (general academic, practical) general academic	Year /Semester 1 / 1
Elective path/specialty -	Subject offered in: Polish	Course (compulsory, elective) obligatory
Cycle of study: First-cycle studies	Form of study (full-time, part-time) part-time	
No. of hours Lecture: 9 Classes: - Laboratory: - Project/seminars: -		No. of credits 2
Status of the course in the study program (Basic, major, other) other		(university-wide, from another field) university-wide
Education areas and fields of science and art technical sciences Technical sciences		ECTS distribution (number and %) 2 100% 2 100%
Responsible for subject / lecturer: Dr eng. Wojciech Prokopowicz email: wojtek379@wp.pl tel. +48 606 638 410 Faculty of Transport Engineering Piotrowo 3 street, 60-965 Poznań		
Prerequisites in terms of knowledge, skills and social competencies:		
1	Knowledge	In the field of flight safety basics.
2	Skills	He is able to apply the scientific method in solving problems.
3	Social competencies	He knows the limits of his knowledge and skills; can work in a group.
Assumptions and objectives of the course: The goal of the course: - familiarizing the student with the management of flight safety, creating documentation of flight organization and safety management systems.		
Study outcomes and reference to the educational results for a field of study		
Knowledge:		
1. Student has a structured, theoretically founded general knowledge covering key issues in the field of flight safety and hazard risk assessment - [[K1_W12]]		
Skills:		
1. Student knows how to use native and international languages to the extent enabling the understanding of technical texts and writing technical descriptions of machines in the field of aviation and cosmonautics using dictionaries (knowledge technical terminology) - [[K1A_U01]]		
2. Student can develop a safety instruction for a simple and medium-complex on-board device, machine or a technical flying facility under certain environmental conditions - [[K1A_U12]]		
Social competencies:		
1. Student understands the need to learn throughout life; can inspire and organize the learning process of other people - [[K1_K01]]		
2. Student is able to interact and work in a group, assuming different roles in it - [[K1_K03]]		
3. Student is able to properly determine the priorities for the implementation of tasks specified by himself or others - [[K1_K04]]		

Assessment methods of study outcomes		
-Written test		
Course description		
<p>-Terminology and regulations of flight organization. Classification of flights and regulations for their completion. Rules for performing certain tasks specific to military aviation. Flight logistics. Organization of flights and its stages. Organization of test flights. The role of individual functionaries and flight organization departments in organizing flights. Flight organization documentation. Functioning of the flight safety service in military aviation. The goal of safety management. Basic concepts: risk, threat, unreliability, security. Human system - technology - environment, losses in the system and their causes, human errors. System structures and their bases modeling and analysis - risk and safety. Security system in military and civil aviation, international and national organization, organization and management of safety in the construction and operation of aircraft. Certification of production, use handling services. Security systems in air traffic and airports. Air personnel licensing, knowledge control, skills and proficiency. State aviation supervision.</p>		
Basic bibliography:		
<p>1. Wytyczne nr 13 Prezesa Urzędu Lotnictwa Cywilnego z dnia 10 grudnia 2015 r. w sprawie wprowadzenia do stosowania wymagań ustanowionych przez Organizację Międzynarodowego Lotnictwa Cywilnego (ICAO) ? Doc 9859, Podręcznik zarządzania bezpieczeństwem.</p> <p>2. ICAO, Podręcznik Zarządzania Bezpieczeństwem (SSM), wyd. 3, Montreal 2013, Doc 9859.</p> <p>3. Bujanowski M., Bezpieczeństwo ICAO Doc. 9859 AN/474, załącznik do, Warszawa 2015. otnictwa cywilnego, Wydawnictwo Naukowe Scholar, Warszawa 2016.</p> <p>4. Jaźwiński J., Borgoń J., Niezawodność eksploatacyjna i bezpieczeństwo lotów, Wydawnictwa Komunikacji i Łączności, Warszawa 1989.</p> <p>5. Klich B., Bezpieczeństwo lotów, Puławy 1998.</p> <p>6. Dąbrowska J., Czynniki ludzkie w lotnictwie, Instytut Lotnictwa Politechniki Warszawskiej, Warszawa 2011.</p> <p>7. Nowakowski, M. Zieja, T. Ewertowski, A. Żyłuk, Bezpieczeństwo i Ekologia Badanie udziału czynnika ludzkiego z wykorzystaniem opracowanego modelu taksonomii przyczyn zdarzeń lotniczych, Warszawa 2016.</p> <p>8. Decyzja nr 67/MON Ministra Obrony Narodowej z dnia 9 marca 2015 r., Instrukcja Bezpieczeństwa Lotów Lotnictwa Sił Zbrojnych RP, sygn. Szt. Gen. 1681/2014, Warszawa 2015.</p> <p>9. Poradnik ? Podstawy Zarządzania Rysykiem w Lotnictwie, Dowództwo Sił Powietrznych, Warszawa 2010</p> <p>10. Instrukcja Bezpieczeństwa Lotów Lotnictwa SZ RP, Poznań 2014</p> <p>11. Żurek J., Wybrane metody oceny bezpieczeństwa w lotnictwie, ITWL, Warszawa 2009</p>		
Additional bibliography:		
Result of average student's workload		
Activity	Time (working hours)	
1. Preparation for the exam	15	
2. Participation in the exam	5	
3. Participation in lectures	2	
Student's workload		
Source of workload	hours	ECTS
Total workload	37	2
Contact hours	32	2
Practical activities	0	0