STUDY MODULE DESCRIPTION FORM

Name of the module/subject		Code
General flight safety		**1010601111010637508**

Field of study	Profile of study (general academic, practical)	Year /Semester
Aerospace Engineering	**general academic**	**1 / 1**
Elective path/specialty	Subject offered in:	Course (compulsory, elective)
-	**Polish**	**obligatory**

Cycle of study:	Form of study (full-time,part-time)
First-cycle studies	**full-time**

No. of hours				No. of credits
Lecture: **1**	Classes: **-**	Laboratory: **-**	Project/seminars: **-**	**2**

Status of the course in the study program (Basic, major, other)	(university-wide, from another field)
other	**university-wide**

Education areas and fields of science and art	ECTS distribution (number and %)
technical sciences	**2 100%**
Technical sciences	**2 100%**

Responsible for subject / lecturer:

mgr inż. Magdalena Chmielewska-Stróżyk
email: magdalena.chmielewska-strozyk@put.poznan.pl
tel. +48 517 537 022
Faculty of Transport Engineering
ul. Piotrowo 3 60-965 Poznań

Responsible for subject / lecturer:

dr hab. inż. Agnieszka Wróblewska
email: agnieszka.wroblewska@put.poznan.pl
tel. +48 784 698 595
Faculty of Transport Engineering
ul. Piotrowo 3 60-965 Poznań

Prerequisites in terms of knowledge, skills and social competencies:

1	**Knowledge**	in the field of flight safety [PRK4]
2	**Skills**	can apply the scientific method in solving problems[PRK4]
3	**Social competencies**	knows the limits of own knowledge and skills; can work in a group[PRK4]

Assumptions and objectives of the course:

familiarizing the student with flight safety management, creating flight organization documentation and air traffic safety systems

Study outcomes and reference to the educational results for a field of study

Knowledge:

1. has a structured, theoretically founded general knowledge covering key issues in the field of flight safety and hazard risk assessment - [K1A_W10]

Skills:

1. knows how to use native and international languages to the extent that it allows to understand technical texts and write technical descriptions of machines in the field of aviation and astronautics (technical terminology) - [K1A_U01]
2. able to develop a safety instruction for a simple and medium-complex on-board device, machine or technical flying facility under specified environmental conditions - [K1A_U12]

Social competencies:

1. understands the need to learn throughout life; can inspire and organize the learning process of other people - [K1A_K01]
2. can interact and work in a group, taking on different roles in it - [K1A_K03]
3. able to properly define the priorities for the implementation of a task set by himself or others - [K1A_K04]

Assessment methods of study outcomes

Lecture:

- assessment of knowledge and skills demonstrated on written exam

Course description

Terminology and regulations of flight organization. Classification of flights and regulations for their implementation. 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. Security systems in air traffic and airports. Air personnel licensing, knowledge control, skills and proficiency. State aviation supervision.

Basic bibliography:

1. Ustawa z dnia 3 lipca 2002 r. ? Prawo lotnicze (Dz. U. z 2013 r. poz. 1393 z późn. zm oraz z 2014 r. poz. 768 z późn. zm)

2. Rozporządzenie Ministra Infrastruktury z dnia 5 listopada 2004 r. w sprawie bezpieczeństwa eksploatacji statków powietrznych (Dz.U. 2004 nr 262 poz. 2609)

3. Klich E.: ? Bezpieczeństwo lotów?, Instytut Technologii i Eksploatacji ? PiB, Radom, 2011

4. ?Poradnik ? Podstawy Zarządzania Ryzykiem w Lotnictwie?, Dowództwo Sił Powietrznych, Warszawa 2010

5. ?Instrukcja Bezpieczeństwa Lotów Lotnictwa SZ RP?, Poznań 2014

Additional bibliography:

Result of average student's workload

Activity	Time (working hours)
1. Preparation for classes	10
2. Participation in classes (according to plan)	15
3. consultations	1
4. Preparation for the exam / pass	20
5. Participation in the exam / pass	1

Student's workload

Source of workload	hours	ECTS
Total workload	50	2
Contact hours	18	2
Practical activities	0	0