# COURSE DESCRIPTION CARD - SYLLABUS

Course name
General flight safety [S1Lot2>OBL]

## Course

Field of study
Aviation

Year/Semester
1/2

Area of study (specialization)
–

Profile of study
general academic

Level of study
first-cycle

Course offered in
Polish

Form of study
full-time

Requirements
compulsory

## Number of hours

Lecture
10

Laboratory classes
0

Other
0

Tutorials
0

Projects/seminars
0

## Number of credit points

1,00

## Coordinators

mgr inż. Tomasz Górzeński

## Lecturers

## Prerequisites

The student starting this course should have basic knowledge of general flight safety. They should also have the ability to apply the scientific method to problem solving and be ready to collaborate within a team.

## Course objective

To acquaint the student with aviation safety, procedures and civil aviation regulations.

## Course-related learning outcomes

Knowledge:
1. has detailed knowledge related to selected issues in the field of navigation, flight mechanics and piloting techniques, the use of simulators, flight rules, its preparation, and related operating procedures
2. has basic knowledge of the vocabulary used in English to describe mathematical operations and the data presented in the diagram / graph. Has knowledge of formulating a text in English explaining / describing a selected specialist issue, has basic knowledge of the vocabulary used in English to describe the technological support of air communication, flight control systems, safety procedures at the airport related to the presence of animals, aircraft control surfaces, maneuvers performed by plane
3. the student has knowledge of aviation safety and management. The student knows the concept of the human factor and methods of assessing human reliability, has detailed knowledge related to selected

issues in the field of human capabilities and limitations during aircraft operation in flight, its impact on health and the ability to perform air operations, as well as the possibility of improving physical condition
4. has a basic knowledge of the mechanisms and laws governing human behavior and psyche

Skills:
1. is able to organize, cooperate and work in a group, assuming various roles in it, and is able to properly define priorities for the implementation of a task set by himself or others

Social competences:
1. is aware of the importance of knowledge in solving engineering problems and knows examples and understands the causes of faulty engineering projects that have led to serious financial and social losses, or to a serious loss of health and even life

## Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lecture:
- assessment of knowledge and skills demonstrated on the written test - 1.5 hour

## Programme content

Lecture:
Terminology and rules of flight organization. Flight classification and the rules of their performance. Rules for performing some tasks specific to military aviation. Logistics of flights. Organization of flights and its stages. Organization of test flights. The role of individual officials and flight organization services in organizing flights. Documentation of flight organization. Functioning of the flight safety service in military aviation. Safety management goal. Basic concepts: risk, threat, unreliability, safety. System man - technology - environment, losses in the system and their causes, human errors. Structures of systems and the basics of their modeling and analysis - risk versus security. 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, handling and use. Security systems in air traffic and at airports. Licensing of aviation personnel, checks of knowledge, skills and proficiency. State aviation supervision.PART-66

## Course topics

Lecture:
Terminology and rules of flight organization.
Flight classification and the rules of their performance.
Rules for performing some tasks specific to military aviation.
Logistics of flights. Organization of flights and its stages.
Organization of test flights.
The role of individual officials and flight organization services in organizing flights.
Documentation of flight organization.
Functioning of the flight safety service in military aviation.

## Teaching methods

1. Lecture: multimedia presentation, illustrated with examples given on the board.

## Bibliography

Basic:
1. Klich E.: „ Bezpieczeństwo lotów”, Instytut Technologii i Eksploatacji - PiB, Radom, 2011
2. „Poradnik - Podstawy Zarządzania Ryzykiem w Lotnictwie”, Dowództwo Sił Powietrznych, Warszawa 2010
3. „Instrukcja Bezpieczeństwa Lotów Lotnictwa SZ RP”, Poznań 2014

Additional:
-

## Breakdown of average student's workload

| | Hours | ECTS |
|---|---|---|
| Total workload | 25 | 1,00 |
| Classes requiring direct contact with the teacher | 10 | 0,50 |
| Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation) | 15 | 0,50 |