



COURSE DESCRIPTION CARD - SYLLABUS

Course name

VLOS and BVLOS flight rules

Course

Field of study

Aviation

Area of study (specialization)

Unmanned aerial vehicles

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

2/3

Profile of study

Course offered in

Polish

Requirements

Number of hours

Lecture

15

Laboratory classes

0

Other (e.g. online)

0

Tutorials

0

Projects/seminars

0

Number of credit points

1

Lecturers

Responsible for the course/lecturer:

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ul. Piotrowo 3, 60-965 Poznań

Prerequisites

Knowledge:

1. Basics of mathematics, chemistry and physics.

Skills:

1. Using literature (textbooks, internet), the ability to perceive lecture content.

Social competences:

1. Awareness of the need to deepen engineering knowledge and its place in everyday life

Course objective



Getting acquainted with the rules of VLOS and BVLOS flights

Course-related learning outcomes

Knowledge

1. has ordered, theoretically founded general knowledge in the field of technology and various means of air transport, about the life cycle of means of transport, both hardware and software, and in particular about the key processes taking place in them
2. has ordered and theoretically founded general knowledge in the field of key technical issues and detailed knowledge of selected issues related to air transport, knows the basic techniques, methods and tools used in the process of solving tasks related to air transport, mainly of an engineering nature
3. has detailed knowledge related to selected issues in the field of manned and unmanned aircraft construction, in the field of on-board equipment, control systems, communication and recording systems, automation of individual systems, has basic knowledge of flight simulation training devices and simulation methods used to solve air transport issues

Skills

1. is able to obtain information from various sources, including literature and databases, both in Polish and in English, integrate them properly, interpret them and make a critical evaluation, draw conclusions and exhaustively justify the opinions they formulate
2. is able to properly use information and communication techniques, applicable at various stages of the implementation of aviation projects,
3. can assess - at least in a basic scope - various aspects of the risk associated with a logistics undertaking in air transport

Social competences

1. understands that in technology, knowledge and skills very quickly become obsolete
2. 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
3. is aware of the social role of a technical university graduate, in particular understands the need to formulate and provide the society, in an appropriate form, with information and opinions on engineering activities, technological achievements, as well as the achievements and traditions of the engineer profession

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lecture: written exam;



Programme content

1. airspace management at the global, European and Polish levels;
2. aviation law regulations regarding UAVs;
3. NSTS;
4. STSy;

Teaching methods

Lecture: informative (conventional), information transfer in a systematic way

Bibliography

Basic

1. Polish rules - NSTS;
2. European rules – STS;
3. Rozporządzenie wykonawcze UE 2019/947 oraz 2019/945,
4. Wytyczne nr 7 Prezesa Urzędu Lotnictwa Cywilnego z 2021 r.

Additional

1. Pilecki S. Lotnictwo i kosmonautyka, WKL, Warszawa 1984.

Breakdown of average student's workload

	Hours	ECTS
Total workload	25	1,0
Classes requiring direct contact with the teacher	15	0,5
Student's own work (literature studies, preparation for classes, preparation for tests,) ¹	10	0,5

¹ delete or add other activities as appropriate