



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Pilotage of UAV [S2LiK1-BSP>PBSP]

Course

Field of study

Aerospace Engineering

Year/Semester

1/1

Area of study (specialization)

Unmanned Aerial Vehicles

Profile of study

general academic

Level of study

second-cycle

Course offered in

Polish

Form of study

full-time

Requirements

compulsory

Number of hours

Lecture

0

Laboratory classes

60

Other (e.g. online)

0

Tutorials

0

Projects/seminars

0

Number of credit points

4,00

Coordinators

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Lecturers

Prerequisites

Knowledge: The student has a basic knowledge of UAV construction, aviation law and the rules of UAV flights Skills: The student is able to analyze complex processes: identify and describe their component parts. Social competences: The student is able to cooperate in a group, assuming various roles in it. The student is able to determine the priorities important in solving the tasks set before him. The student shows independence in solving problems, gaining and improving the acquired knowledge and skills.

Course objective

To acquaint students with issues related to the pilotage of unmanned aerial vehicles

Course-related learning outcomes

Knowledge:

1. has knowledge of the construction and use of unmanned aerial vehicles, their operation and procedures used in the movement of unmanned aerial vehicles, knows the basics of pilotage and the possibility of using unmanned aerial vehicles, knows and understands the rules of unmanned aerial vehicles and regulations in force in Poland and Europe
2. has detailed and structured knowledge of how to deal with risk in unmanned operations with varying

degrees of operator control

Skills:

1. can plan and perform a flight with an unmanned aerial vehicle, taking into account the availability of airspace, terrain obstacles, UAV capabilities and the type of flight
2. can manage the process of designing an unmanned aerial vehicle and its operation based on known components and flight physics

Social competence

1. Is ready to critically evaluate the knowledge and content received, recognize the importance of knowledge in solving cognitive and practical problems, and consult experts in case of difficulties in solving the problem on its own
2. is able to properly define priorities for the implementation of a task set by himself or others
3. correctly identifies and resolves dilemmas related to the profession

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

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Laboratories: a final exam covering the issues discussed in class

Programme content

Laboratories:

1. exercises carried out on a flight simulator,
2. exercises carried out with the use of unmanned aerial vehicles, legal basis

Course topics

none

Teaching methods

Practical training with the use of flight simulators and a computer or unmanned aerial vehicle flights

Bibliography

Basic

1. Aviation Law Act
2. Regulations to the Aviation Law regarding unmanned aerial vehicles

Additional

1. Recommendations of the President of the Civil Aviation Authority regarding the safe performance of UAV flights

Breakdown of average student's workload

	Hours	ECTS
Total workload	110	4,00
Classes requiring direct contact with the teacher	60	2,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	50	2,00