



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Practical training 6 [S1Lot2-PSPL>PZ6]

### Course

Field of study

Aviation

Year/Semester

3/6

Area of study (specialization)

Aircraft Piloting

Profile of study

general academic

Level of study

first-cycle

Course offered in

Polish

Form of study

full-time

Requirements

elective

### Number of hours

Lecture

0

Laboratory classes

0

Other

55

Tutorials

0

Projects/seminars

0

### Number of credit points

10,00

### Coordinators

dr inż. Łukasz Brodzik

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### Lecturers

### Prerequisites

• Knowledge of internship regulations and completion requirements. • Basic knowledge of topics covered in the study program. • Ability to apply theoretical knowledge in practice. • Skills in teamwork and fair task distribution within a workgroup. • Ability to correctly interpret and execute assigned tasks

### Course objective

• Verification of the student's theoretical knowledge in real-world conditions. • Acquisition of practical professional experience in an actual work environment.

### Course-related learning outcomes

Knowledge:

Advanced knowledge of mathematics (algebra, analysis, differential equations, probability, analytical geometry) and physics (classical mechanics, optics, electricity and magnetism, solid-state physics, thermodynamics) applicable to aviation engineering and modeling.

Structured theoretical understanding of key technical aspects of aviation and the life cycle of air transport systems, both hardware and software.

Detailed knowledge of aviation transport processes, engineering solutions, and tools used in aviation.

Understanding of technical thermodynamics, fluid mechanics, and aerodynamics.  
 Knowledge of manned and unmanned aircraft construction, onboard equipment, control and communication systems, automation, and flight simulation technologies.  
 Proficiency in self-learning using modern tools such as online lectures, databases, e-books, and digital learning programs.

**Skills:**

Ability to gather, analyze, and critically evaluate information from various sources (literature, databases in Polish and English).

Proficiency in using information and communication technologies applicable to aviation projects.

Ability to plan and conduct experiments, including measurements and computer simulations, and correctly interpret results.

Capability to apply analytical, simulation, and experimental methods in solving civil aviation-related problems.

Competence in probability theory and statistical analysis, with the ability to interpret and apply statistical methods in aviation engineering.

Ability to collaborate and work in a team, taking on various roles and prioritizing tasks effectively.

Capability to plan and pursue lifelong learning, including opportunities for advanced studies and professional development.

**Social competences:**

Awareness of the social role of an aviation engineer, including the responsibility to communicate technical advancements and engineering developments to the public.

Ability to identify and resolve ethical dilemmas in aviation and astronautics.

**Methods for verifying learning outcomes and assessment criteria**

Learning outcomes presented above are verified as follows:

Completion of the aviation internship based on the implemented training program.

**Programme content**

- Practical implementation of integrated training for the ATPL(A) frozen pilot licen

**Course topics**

- Not applicable.

**Teaching methods**

Internship completion is assessed based on the completed flight training program.

**Bibliography**

Basic:

Not applicable

Additional:

Not applicable

**Breakdown of average student's workload**

	Hours	ECTS
Total workload	250	10,00
Classes requiring direct contact with the teacher	30	1,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	220	9,00