COURSE DESCRIPTION CARD - SYLLABUS

Course name

Flying Technique

Course

Field of study

Aviation

Year/Semester

4/7

Area of study (specialization)

Flight Training For Civil Aviation

Profile of study

general academic

Level of study

First-cycle studies

Course offered in

polish

Form of study

full-time

Requirements

compulsory

Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

35

Projects/seminars

Number of credit points

3

Lecturers

Responsible for the course/lecturer:

mgr pil. Wojciech Nowaczyk

Wydział Inżynierii Środowiska i Energetyki

email: wojciech.nowaczyk@put.poznan.pl

tel. +48 500 123 360

Responsible for the course/lecturer:

mgr pil. Tomasz Zdziarski

Wydział Inżynierii Środowiska i Energetyki

email: tomasz.zdziarski@put.poznan.pl

tel. +48 500 123 362

Prerequisites

The student starting this subject should have basic knowledge of airframe assemblies, control systems, hydraulic, pneumatic, fuel, air-conditioning and emergency systems. He should also have the ability to apply the scientific method in solving problems and be ready to cooperate within a team.

Course objective

Construction and operation principles of an aviation simulator. VFR day flights. IFR day flights. Instrument approach for landing. Navigating the aircraft based on instrument readings and ground-based radio navigation devices. Assessment of the situation and appropriate action in specific situations during the flight. Rules of conducting radio correspondence.

Course-related learning outcomes

Knowledge

1. 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

2. has the ability to self-study with the use of modern teaching tools, such as remote lectures, websites and databases, teaching programs, e-books

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 see legal aspects in the process of formulating and solving tasks in air transport, in particular, use the aspects of European and national aviation law regulations

4. 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

5. is able to plan and implement the process of own permanent learning and knows the possibilities of further education (2nd and 3rd degree studies, postgraduate studies, courses and exams conducted by universities, companies and professional organizations)

6. can assess - at least in a basic scope - various aspects of the risk associated with a logistics undertaking in air transport

Social competences

1. is able to think and act in an entrepreneurial way, incl. finding commercial applications for the created system, bearing in mind not only the business benefits, but also the social benefits of the activity

2. 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

3. correctly identifies and resolves dilemmas related to the profession of an aerospace engineer

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Exercises:

- knowledge acquired as part of the exercises is verified by two 45-minute colloquia carried out in 3 and 7 classes

Programme content

Exercises:

semester 7:

Preparation for APS MCC

MCC - in accordance with the Training Manual - ATP Integrated Training

Teaching methods

Exercises: examples given on the board and performance of tasks given by the teacher - practical exercises.

Bibliography

Basic

Additional

Breakdown of average student's workload

	Hours	ECTS
Total workload	63	3,0
Classes requiring direct contact with the teacher	33	2,0
Student's own work (literature studies, preparation for written test) [1]	30	1,0

[1] delete or add other activities as appropriate