COURSE DESCRIPTION CARD - SYLLABUS

Course name
Flight planning and monitoring 1

Course

Field of study
Aviation

Year/Semester
1/2

Area of study (specialization)

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
15

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

Number of credit points

1

Lecturers

Responsible for the course/lecturer:
mgr inż. El Joundi Michał Murad

Wydział Inżynierii Środowiska i Energetyki

email: murad.eljoundi@put.poznan.pl

Responsible for the course/lecturer:
Tomasz Górzeński

Wydział Inżynierii Środowiska i Energetyki

email: tomasz.gorzenski@put.poznan.pl

Prerequisites

The student starting this subject should have a basic knowledge of flight planning. He should also have the ability to apply the scientific method in solving problems and be ready to cooperate within a team.

Course objective

To acquaint the student with the rules of flight planning and monitoring in accordance with applicable regulations, developing an operational flight plan and flight plan for air navigation services.

Course-related learning outcomes

Knowledge

1. has detailed knowledge related to selected issues in the field of the most important phenomena occurring in the Earth's atmosphere, the possibility of their prediction, recognition, research, as well as limiting the negative impact of human activity on the surrounding environment

2. has basic knowledge of environmental protection in transport, is aware of the risks associated with environmental protection and understands the specificity of the impact of mainly air transport on the environment as well as social, economic, legal and other non-technical conditions of engineering activities

3. has a basic knowledge of the mechanisms and laws governing human behavior and psyche

Skills

1. is able obtain information from various sources, including literature and databases, both in Polish and in English, integrate them properly, interpret and critically evaluate them, draw conclusions and exhaustively justify their opinions

2. when formulating and solving tasks related to civil aviation, is able to apply appropriately selected methods, including analytical, simulation or experimental methods

3. 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. understands that in technology, knowledge and skills very quickly become obsolete

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:

Flight planning for VFR flights. Flight planning for IFR flights. VFR and IFR navigation plan. Airspace, communication, visual and radio-navigation data from VFR and IFR charts. Fuel planning (general), trip fuel, taxi fuel. Pre-flight preparation. ATS flight plan. Flight monitoring and in-flight replanning. Purpose off mass and balance considerations. Loading.

Teaching methods

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

Bibliography

Basic

Additional

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 written tests)[1]	10	0,5

[1] delete or add other activities as appropriate