



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Flight planning and monitoring

Course

Field of study

Aviation and astronautics

Area of study (specialization)

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

1/2

Profile of study

general academic

Course offered in

polish

Requirements

compulsory

Number of hours

Lecture

15

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

Number of credit points

2

Lecturers

Responsible for the course/lecturer:

mgr inż. Tomasz Duda

Responsible for the course/lecturer:

Wydział Inżynierii Środowiska i Energetyki

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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 activities on the surrounding environment



2. has detailed knowledge related to selected issues in the field of flight rules, its preparation, as well as related operational procedures

Skills

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

2. knows how to use verbal communication with one additional foreign language at the everyday language level, is able to describe in this language issues from the field of study being studied, is able to prepare technical descriptive and drawing documentation of an engineering, transport and / or logistics task

Social competences

1. is able to interact and work in a group, taking on various roles in it

2. is able to properly set priorities for the implementation of the task specified by him or others

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	74	2,0
Classes requiring direct contact with the teacher	32	0,8
Student's own work (literature studies, preparation for written tests) ¹	42	1,2

¹ delete or add other activities as appropriate