



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Aviation Procedures

Course

Field of study

Aerospace Engineering

Area of study (specialization)

Civil Aviation

Level of study

Second-cycle studies

Form of study

full-time

Year/Semester

2/3

Profile of study

general academic

Course offered in

polish

Requirements

elective

Number of hours

Lecture

15

Laboratory classes

Other (e.g. online)

Tutorials

15

Projects/seminars

15

Number of credit points

3

Lecturers

Responsible for the course/lecturer:

mgr inż. Marta Maciejewska

Responsible for the course/lecturer:

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Faculty of Civil and Transport Engineering

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Prerequisites

Knowledge: The student has basic knowledge of legal regulations in civil aviation, knows the basic aviation organizations, can use aviation nomenclature,

Skills: The student is able to independently search for information in the literature and critically evaluate the content found on the Internet,

Social competences: The student is able to work in a group and knows the rules of discussion,

Course objective

The aim of the course is to familiarize the student with the procedures in force in aviation organizations, their legal basis and the method of performing and assessing.



Course-related learning outcomes

Knowledge

1. has extended knowledge necessary for the understanding of profile subjects and specialist knowledge about the construction, construction methods, manufacturing, operation, air traffic management, safety systems, economic, social and environmental impact in the field of aviation and aerospace for selected specialties: Civil Aviation, BSP
2. has basic knowledge of aviation organizations and applicable Polish and European aviation law
3. has basic knowledge of aircraft movement in the air space and air traffic services
4. has detailed knowledge related to selected issues in the field of ground handling of aircraft and propulsion systems, including logistics aspects

Skills

1. Can communicate using various techniques in the professional and other environments, using the formal notation of construction, technical drawing, concepts and definitions of the scope of the studied field of study
2. has the ability to self-educate with the use of modern teaching tools, such as remote lectures, websites and databases, teaching programs, e-books
3. Can obtain information from literature, the Internet, databases and other sources. Can integrate the obtained information, interpret and draw conclusions from it, and create and justify opinions

Social competences

1. Understands the need for lifelong learning; can inspire and organize the learning process of other people
2. 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 the event of difficulties in solving the problem on its own

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

LECTURE: written exam from the content presented during the lecture

PROJECT: evaluation of the content of the project, defense of the project at the end of the semester

TUTORIALS: final test at the end of the semester

Programme content

LECTURE:

1. Introduction to the subject
2. Basic aviation documents (AIP, AIC, AUP, messages)



3. Basic aviation documents (flight plan, operational flight plan, aeronautical charts)
4. Documentation for the performance of the flight (pilot documentation (PPL, UAVO), aircraft documentation)
5. Documents regulating air transport and creating airlines
6. Irregularities in air traffic
7. Crediting

EXERCISES:

1. Introduction to the classes
2. Depreciation (NOTAM, METAR, TAF)
3. Completing the flight plan, aeronautical charts
4. Completing pilot / airplane documentation
5. Creating an airline connection network
6. Determining the position of the aircraft
7. Crediting

PROJECT: Planning of UAV / Airplane flight missions

1. Introduction to design activities
2. The general purpose of the mission, description of the mission,
3. Mission planning (airspace, possible obstacles, necessary approvals)
4. Characteristics of the aircraft used, characteristics of the flight crew, requirements
5. Risk analysis
6. Defense of the project

Teaching methods

Informative (conventional) lecture (providing information in a structured way) - may be of a course (introductory) or monographic (specialist) character

Project method (individual or team implementation of a large, multi-stage cognitive or practical task, the effect of which is the creation of a work)



The exercise method (subject exercises, practice exercises) - in the form of auditorium exercises (application of the acquired knowledge in practice - may take various forms: solving cognitive tasks or training psychomotor skills; transforming a conscious activity into a habit through repetition)

Bibliography

Basic

1. Aviation law and procedures. Fellner R., Jafernik H., Publishing House of the Silesian University of Technology 2015,
2. Manual of Certification and Ongoing Supervision of Aviation Mechanics Training Centers
3. Regional supplementary procedures: Doc 7030, Legal and Legislative Department - Department of the Official Journal of the Civil Aviation Authority; International Civil Aviation Organization. President of the Civil Aviation Authority, 2014.

Additional

1. www.aip.pansa.pl
2. Manual of Certification and Ongoing Organization Supervision Part-147

Breakdown of average student's workload

	Hours	ECTS
Total workload	75	3,0
Classes requiring direct contact with the teacher	50	2,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹	25	1,0

¹ delete or add other activities as appropriate