



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Operational procedures 2

Course

Field of study

Aviation and astronautics

Area of study (specialization)

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

2/4; 3/5

Profile of study

general academic

Course offered in

polish

Requirements

compulsory

Number of hours

Lecture

30

Laboratory classes

15

Other (e.g. online)

Tutorials

Projects/seminars

Number of credit points

3

Lecturers

Responsible for the course/lecturer:

mgr Tomasz Zdziarski

Responsible for the course/lecturer:

Wydział Inżynierii Środowiska i Energetyki

email: tomasz.zdziarski@put.poznan.pl

tel. +48 500 123 362

Prerequisites

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

Course objective

The ability to use operational and navigational documentation, interpret and apply the provisions related to the operation of aircraft, search and rescue, investigation of air accidents, anti-noise procedures, emergency procedures, transport of dangerous goods, transport of passengers, understanding the effects of violations of aviation regulations.

Course-related learning outcomes

Knowledge



1. has detailed knowledge related to selected issues in the field of flight rules, its preparation, as well as related operational procedures
2. has basic knowledge in the field of technical diagnostics of means of transport as well as methods and methods of solving problems of assessment of their technical condition and forecasting, knows: conditions of diagnosing technical objects, the essence of technical diagnostics applied to air transport means, tasks and objectives of technical diagnostics
3. has expanded knowledge necessary to understand profile subjects and specialist knowledge about construction, methods of construction, manufacture, operation, air traffic management, security systems, impact on the economy, society and the environment in the field of aviation and space for selected specialties:
 1. Piloting of aircraft
 2. Aero engines and airframe components
 3. Aviation security and management
 4. Air transport

Skills

1. knows how to use verbal communication with one additional foreign language at the everyday language level, can describe the issues of the studied field of study in this language, can prepare technical descriptive and drawing documentation of an engineering, transport and / or logistics task
2. is able to develop a safety instruction for a simple and medium complex on-board device, machine or technical flying object in specified environmental conditions

Social competences

1. is aware of the importance and understands the non-technical aspects and effects of engineering activities, including its impact on the environment, and the associated responsibility for the decisions taken
2. can interact and work in a group, taking on different roles in it

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

Laboratory:

Skills acquired as part of the laboratory are verified on the basis of reports and answers specific to each issue.

Programme content



Lecture:

semester 4:

ICAO Annex 6. Definitions. Applicability. General. Operational requirements. Operator certification and supervision. Operational procedures (except preparation for long-range flight). Flight Preparation. All-weather operations. Cabin crew/crew members other than flight crew. Flight and duty time limitations and rest requirements.

semester 5:

Long-range flights. Transoceanic and polar flights. North Atlantic High Level Airspace (NAT HLA). Navigation system degradation. Special operational procedures and hazards.

Lab:

Minimum equipment list (MEL) and master minimum equipment list (MMEL). Icing conditions. Procedure to apply in case of performance deterioration, on ground/in flight. Bird-strike risk and avoidance. Noise-abatement procedures. Fire and smoke

Teaching methods

1. Lecture: multimedia presentation, illustrated with examples given on the board.
2. Practical exercises at the didactic and laboratory positions.

Bibliography

Basic

Additional

Breakdown of average student's workload

	Hours	ECTS
Total workload	75	3,0
Classes requiring direct contact with the teacher	55	2,2
Student's own work (literature studies, preparation for written tests) ¹	20	0,8

¹ delete or add other activities as appropriate