COURSE DESCRIPTION CARD - SYLLABUS

Course name
Operational procedures 2

Course

Field of study
Aerospace Engineering

Year/Semester
2/4; 3/5

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	Laboratory classes	Other (e.g. online)
30	15	
Tutorials	Projects/seminars	

Number of credit points

3

Lecturers

Responsible for the course/lecturer:
mgr Tomasz Zdziarski

Wydział Inżynierii Środowiska i Energetyki

email: tomasz.zdziarski@put.poznan.pl

tel. +48 500 123 362

Responsible for the course/lecturer:
dr hab. inż. Agnieszka Wróblewska, prof.PP

Wydział Inżynierii Środowiska i Energetyki

email: agnieszka.wroblewska@put.poznan.pl

tel. 61 665 2201

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 expanded knowledge of technical vocabulary, in particular specialized terminology used in the fields of science and technology related to aviation engineering.

3. has ordered, theoretically founded general knowledge covering key flight safety issues and risk assessment.

Skills

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

2. can obtain information from literature, the Internet, databases and other sources. Is able to integrate obtained information, interpret and draw conclusions from them.

3.can 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 of maintaining the principles of professional ethics.

2. is able to properly set priorities for the implementation of the task specified by himself or others based on available knowledge.

3. Understands the need for critical assessment of knowledge and continuous learning.

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 Preperation. 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