# POZNAN UNIVERSITY OF TECHNOLOGY



# EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

### **COURSE DESCRIPTION CARD - SYLLABUS**

Course name

Practice (160h)

**Course** 

Field of study Year/Semester

Aerospace Engineering 1/2

Area of study (specialization) Profile of study

general academic

Level of study Course offered in

Second-cycle studies Polish

Form of study Requirements

full-time elective

**Number of hours** 

Lecture Laboratory classes Other (e.g. online)

0 0

Tutorials Projects/seminars

0

**Number of credit points** 

6

**Lecturers** 

Responsible for the course/lecturer: Responsible for the course/lecturer:

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Polska Agencja Żeglugi Powietrznej Wydział Inżynierii Lądowej i Transportu

ul. Wieżowa 8, 02-147 Warszawa ul. Piotrowo 3 60-965 Poznań

# **Prerequisites**

Knowledge: The student has knowledge of the applicable rules for the implementation of internships. Student knows the internship regulations and the conditions for passing them. Has a basic knowledge of the issues covered by the study program.

Skills: The student has the ability to creatively use the knowledge acquired during studies

Social competences: The student is able to work in a working group. Can transparently distribute tasks in the group. He can correctly interpret and perform the received tasks and is able to make a verbal presentation of the results of his work

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### **Course objective**

Verification of the theoretical knowledge possessed by the student with reality, gaining new professional experience in real working conditions in the field of generally understood provision of air navigation services and processes related to their provision.

### **Course-related learning outcomes**

### Knowledge

- 1. Has extended knowledge necessary to understand the profile subjects and specialist knowledge about the construction, methods of construction, production, operation, air traffic management, safety systems, impact on the economy, society and the environment in the field of aviation and cosmonautics [K2A\_W01]
- 2. Has detailed knowledge related to selected issues in the field of manned and unmanned spacecraft construction, in the field of on-board equipment, control systems, communication and recording systems, life support systems, satellite navigation systems, teletection, image recognition, automation of individual systems [K2A\_W05]

#### Skills

- 1. Is able to use the following languages: native and international to a degree enabling the understanding of technical texts and writing technical descriptions of machines in the field of aviation and aerospace using dictionaries (knowledge of technical terminology) [K2A\_U01]
- 2. Can use formulas and tables, technical and economic calculations with the use of a spreadsheet, programming tools of his own authorship, specialized software [K2A U05]
- 3. Can draw a diagram and a complex machine element in accordance with the rules of a technical drawing, can create a system diagram, select elements and perform basic calculations of the electrical and electronic system of machines or aerospace equipment [K2A\_U06]
- 4. Can analyze objects and technical solutions, can search in catalogs and on manufacturers' websites, ready components of machines and devices, including means and transport and storage devices, assess their suitability for use in their own technical and organizational projects [K2A\_U08]

### Social competences

- 1. Understands the need for lifelong learning; can inspire and organize the learning process of other people [K2A\_K01]
- 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 case of difficulties in solving the problem on its own [K2A K02]
- 3. Is aware of the importance and understands the non-technical aspects and effects of engineering activities, including its impact on the environment, and the related responsibility for decisions made [K2A\_K03]

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### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Completion of the internship on the basis of a report on the implementation of internships, certified by the company, assessment of the internship tutor by the company.

### **Programme content**

Getting acquainted with the functioning of the agency, carrying out activities related to the provision of air navigation services and cooperating with other entities in the field of aviation, both civil and state.

### **Teaching methods**

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).

# **Bibliography**

Basic

- 1. Rules for the implementation of internships at WILiT
- 2. Framework internship program at WILiT
- 3. Specimens of documents necessary for the implementation of the internship, agreement, report, detailed internship program, procedures in force in PANSA, PANSA internal instructions

Additional

### Breakdown of average student's workload

	Hours	ECTS
Total workload	165	6,0
Classes requiring direct contact with the teacher	5	0,0
Student's own work <sup>1</sup>	160	6,0

3

<sup>&</sup>lt;sup>1</sup> delete or add other activities as appropriate