



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Preparation of diploma thesis with elements of research

### Course

Field of study

Aerospace Engineering

Area of study (specialization)

Flight training for civil aviation

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

4/7

Profile of study

general academic

Course offered in

polish

Requirements

elective

### Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

5

### Number of credit points

15

### Lecturers

Responsible for the course/lecturer:

dr hab. inż. Agnieszka Wróblewska, prof. PP

email: [agnieszka.wroblewska@put.poznan.pl](mailto:agnieszka.wroblewska@put.poznan.pl)

tel. 61 665 2201

Faculty of Environmental Engineering and Energy

Piotrowo 3 st., 60-965 Poznań

Responsible for the course/lecturer:

### Prerequisites

Student has knowledge of issues related to the realized diploma topic, is able to apply the scientific method in solving problems, carrying out experiments and inference, knows the limitations of their own knowledge, skills and is able to formulate questions precisely, and understands the need for further education.

### Course objective

Preparing students to independently perform engineering thesis and scientific research.

### Course-related learning outcomes

Knowledge



1. has expanded knowledge necessary to understand profile subjects and specialist knowledge about construction, methods of construction, manufacture, operation, aircraft control, safety systems, economic, social and environmental impact in the field of aviation engineering for the specialty Aircraft Piloting
2. a basic knowledge necessary to understand social, economic, legal and other non-technical conditions of engineering activities
3. has a basic knowledge of ethics and law, in particular civil aviation law, copyright law, protection of industrial property and its impact on the development of technology

#### Skills

1. knows how to use a language sufficient to understand technical texts in the field of aviation (knowledge of technical terminology)
2. is able to prepare and present a short verbal and multimedia presentation devoted to the results of an engineering task in aviation
3. the ability to self-study with the use of modern teaching tools, such as remote lectures, websites and databases, teaching programs, e-books

#### Social competences

1. is aware of the importance of maintaining the principles of professional ethics in the performance of tests and presenting their results
2. is aware of the importance and understands the non-technical aspects and effects of engineering activities and in the field of aviation engineering, the related responsibility for decisions
3. is aware of the social role of a technical university graduate in the field of aeronautical engineering, and in particular understands the need for formulation and transmission to the public, in particular through the mass media, information and opinions on the achievements of technology and other aspects of engineering activities

#### **Methods for verifying learning outcomes and assessment criteria**

Learning outcomes presented above are verified as follows:

Written exam

#### **Programme content**

Program content in accordance with the detailed tasks given in the topic of engineering thesis.

#### **Teaching methods**

Ongoing consultation and evaluation of text formatting for the selected example

#### **Bibliography**



Basic

1 Korzyński M., Metodyka eksperymentu. Wydawnictwo NT, Warszawa 2006

Additional

-

### Breakdown of average student's workload

	Hours	ECTS
Total workload	371	15,0
Classes requiring direct contact with the teacher	9	0,5
Student's own work (literature studies, participation in research preparation work) <sup>1</sup>	362	14,5

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