



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Certification of aeronautical products

### Course

Field of study

Aerospace Engineering

Area of study (specialization)

Aeronautical Engineering

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

compulsory

### Number of hours

Lecture

15

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

### Number of credit points

1

### Lecturers

Responsible for the course/lecturer:

mgr inż. Wiktor Hoffmann

Responsible for the course/lecturer:

email:

wiktor.j.hoffmann@doctrate.put.poznan.pl

Wydział Inżynierii Środowiska i Energetyki

ul. Piotrowo 3 60-956 Poznań

### Prerequisites

Student has basic knowledge, necessary for understanding of profile subjects and specialist knowledge about construction, methods of construction, manufacturing, exploitation, air traffic management, security systems, impact on the economy, society and environment of the aviation and cosmonautics for selected specialties: Aeronautical Engineering.

Student has the ability to self-study using modern teaching tools, such as remote lectures, websites and databases, didactic programs, e-books. Student can obtain information from literature, the Internet, databases and other sources. Can integrate the information obtained and interpret conclusions and create and justify opinions.



Student understands the need to learn throughout life; he can inspire and organize the learning process of other people. Student 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 case of difficulties in solving the problem. Student is capable of self-studying from various knowledge sources

### Course objective

To acquaint students with knowledge on aircraft and propulsion systems airworthiness certification

### Course-related learning outcomes

#### Knowledge

"Student has extensive knowledge, necessary for understanding of profile subjects and specialist knowledge about construction, methods of construction, manufacturing, exploitation, air traffic management, security systems, impact on the economy, society and environment of the aviation and cosmonautics for selected specialties: Aeronautical Engineering. Student has ordered, supplemented with theoretical issues general knowledge covering key issues in the field of the impact of aviation on the environment, the emission of toxic compounds of aviation propulsion, acoustic emission of flying objects. Student has basic knowledge in the field of law, in particular law on civil aviation, copyright and protection of industrial property and its impact on the development of technology, student can use the resources of patent information

#### Skills

Student is able to communicate using various techniques in a professional environment and other environments using a formal record of construction, technical drawing, concepts and definition of the scope of the studied field of study. Student has the ability to self-study using modern teaching tools, such as remote lectures, websites and databases, didactic programs, e-books. Student can obtain information from literature, the Internet, databases and other sources. Can integrate the information obtained and interpret conclusions and create and justify opinions

#### Social competences

Student understands the need to learn throughout life; he can inspire and organize the learning process of other people. Student 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 case of difficulties in solving the problem. Student 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

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Assesment Test

### Programme content

Historical note: creation of airworthiness regulations, runthrough of airworthiness regulations in the UE, UK, USA, Canada. Certification of civil and military aircraft.



## Teaching methods

Lecture

## Bibliography

Basic

- EASA Part 21, Part 26, Part 66, Part 147
- CAA/BCAR regulations
- Canadian Aviation Regulations (SOR/96-433)
- FAA/FAR regulations

Additional

## Breakdown of average student's workload

	Hours	ECTS
Total workload	28	1,0
Classes requiring direct contact with the teacher	19	0,7
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) <sup>1</sup>	0	0

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