



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Certification of aviation products [S1Lot2-BSP>CWL]

### Course

Field of study

Aviation

Year/Semester

3/6

Area of study (specialization)

Unmanned Aerial Vehicles

Profile of study

general academic

Level of study

first-cycle

Course offered in

Polish

Form of study

full-time

Requirements

elective

### Number of hours

Lecture

15

Laboratory classes

0

Other

0

Tutorials

0

Projects/seminars

0

### Number of credit points

1,00

### Coordinators

dr inż. Marta Maciejewska

marta.maciejewska@put.poznan.pl

### Lecturers

### Prerequisites

Knowledge: Basic knowledge of the functioning of civil aviation Skills: the ability to solve research problems using scientific methods Social competences: the ability to precisely formulate questions; the ability to define priorities important in solving the tasks set for him; the ability to formulate a research problem and search for its solution, independence in problem-solving, the ability to cooperate in a group

### Course objective

Acquainting the student with the regulations concerning the certification process of aviation products

### Course-related learning outcomes

Knowledge:

1. has ordered and theoretically founded general knowledge in the field of key technical issues and detailed knowledge of selected issues related to air transport, knows the basic techniques, methods and tools used in the process of solving tasks related to air transport, mainly of an engineering nature [L1\_W03]
2. has basic knowledge of aviation law, organizations operating in civil aviation and knows the basic principles of state aviation functioning, has basic knowledge of key issues in the functioning of civil

**Skills:**

1. can see legal aspects in the process of formulating and solving tasks in air transport, in particular, use the aspects of European and national aviation law [L\_U05]

**Social competences:**

1. correctly identifies and resolves dilemmas related to the profession of aerospace engineer [L\_U05]

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Learning outcomes presented above are verified as follows:

Lecture: -assessment of knowledge and skills demonstrated on the written test

### Programme content

1. Basic concepts of aircraft continuing airworthiness and maintenance
2. Scope of Regulation 1321/2014. Part M, Part 66, Part 145, Part 147.
3. Certification procedures
4. The airworthiness cycle of the aviation product. POA and DOA
5. Scope of Regulation 1702/2003. Part 21
6. Sample maintenance plan for a passenger plane - overview

### Course topics

The lecture program covers the following topics:

1. The concept of continuing airworthiness and basic definitions related to it
2. Basic regulations governing aircraft maintenance, certified maintenance organizations and certification of aviation products
3. Discussion of the activities of the POA and DOA organizations
4. Presentation of sample maintenance plans

### Teaching methods

Informative (conventional) lecture (providing information in a structured way) - may be of a course (introductory) or monographic (specialist) character.

### Bibliography

**Basic:**

1. Ustawa z dnia 3 lipca 2002 r. Prawo lotnicze (Dz.U. z 2020 r. poz. 1970)
2. Konwencja o międzynarodowym lotnictwie cywilnym, podpisana w Chicago dnia 7 grudnia 1944 r. - Konwencja chicagowska (Dz. U z 1959 r. Nr 35, poz. 212, z późn. zm) wraz z załącznikami
3. Rozporządzenie Komisji (UE) 1321/2014 z dnia 26 listopada 2014 r. w sprawie ciągłej zdatości do lotu statków powietrznych oraz wyrobów lotniczych, części i wyposażenia, a także w sprawie zatwierdzeń udzielanych organizacjom i personelowi zaangażowanym w takie zadania
4. ROZPORZĄDZENIE KOMISJI (WE) NR 1702/2003 z dnia 24 września 2003 r. ustanawiające zasady wykonawcze dla certyfikacji statków powietrznych i związanych z nimi wyrobów, części i wyposażenia w zakresie zdatości do lotu i ochrony środowiska oraz dla certyfikacji organizacji projektujących i produkujących

**Additional:**

1. Danilecki S., Eksploatowanie samolotów, Redakcja WAT, 2016 Warszawa

### Breakdown of average student's workload

	Hours	ECTS
Total workload	25	1,00
Classes requiring direct contact with the teacher	15	0,50
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	10	0,50