



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Contemporary aviation issues

Course

Field of study

Aerospace Engineering

Area of study (specialization)

–

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

3/5

Profile of study

general academic

Course offered in

polish

Requirements

compulsory

Number of hours

Lecture

15

Tutorials

0

Laboratory classes

0

Projects/seminars

0

Other (e.g. online)

0

Number of credit points

1

Lecturers

Responsible for the course/lecturer:

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Wydział Inżynierii Lądowej i Transportu

ul. Piotrowo 3, 60-965 Poznań

Responsible for the course/lecturer:

Prerequisites

Knowledge:

Basic knowledge in the field of aviation.

Skills:

Can think analytically and associate cause-and-effect relationships in the field of aircraft.

Social competence:

Can work in a group and understands the basics of security.



Course objective

Understanding the requirements and challenges in aviation of the 21st century

Course-related learning outcomes

Knowledge

1. has extended knowledge necessary to understand the profiled subjects and specialist knowledge about the construction, operation, air traffic management, safety systems, economic, social and environmental impact in the field of aviation and space
2. has detailed knowledge related to selected issues in the field of manned and unmanned aerial vehicles, in the field of on-board equipment, control systems, communication and registration systems, automation of individual systems

Skills

1. can communicate using various techniques in the professional environment and other environments using the formal notation of construction, technical drawing, concepts and definitions of the scope of the field of study studied

Social competences

1. understands the need for lifelong learning; can inspire and organize the learning process of other people
2. is ready to critically assess the knowledge and content received, recognize the importance of knowledge in solving cognitive and practical problems and consult experts in the event of difficulties with solving the problem on their own
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
4. is able to interact and work in a group, assuming different roles in it
5. correctly identifies and resolves dilemmas related to the profession
6. is aware of the social role of a technical university graduate, and especially understands the need to formulate and transmit to the society, in particular through the mass media, information and opinions on the achievements of technology and other aspects of engineering activities; makes efforts to provide such information and opinions in a generally comprehensible manner

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lecture: Assessment of knowledge and skills on a written or oral exam based on the explanation of selected issues

Programme content

1. flying ships and rockets,
2. classification, competitiveness, security,
3. regulations, tests and certificates,
4. reducing exhaust emissions and noise,
5. increasing airspace capacity,
6. elimination of the human factor

Teaching methods



Information lecture (conventional), information transfer in a structured way

Bibliography

Basic

1. Pilecki S., Lotnictwo i kosmonautyka, WKŁ, Warszawa 1984.
2. Szczeciński S., Ilustrowany leksykon lotniczy. Technika lotnicza, WKŁ, Warszawa 1988.

Additional

Breakdown of average student's workload

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

¹ delete or add other activities as appropriate