



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

History of progress in aviation and cosmic

### Course

Field of study

Aerospace Engineering

Area of study (specialization)

-

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

1/1

Profile of study

general academic

Course offered in

Polish

Requirements

compulsory

### Number of hours

Lecture

15

Laboratory classes

0

Other (e.g. online)

0

Tutorials

0

Projects/seminars

0

### Number of credit points

1

### Lecturers

Responsible for the course/lecturer:

dr inż. Wojciech Karpiuk

Responsible for the course/lecturer:

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tel. 616475993

Wydział Inżynierii Lądowej i Transportu

ul. Piotrowo 3, 61-138 Poznań

### Prerequisites

Knowledge - Student has the basic knowledge necessary to understand social, economic, legal and other non-technical conditions of engineering activities.

Skills - Student is able to obtain information from literature, databases and other, properly selected sources.

Social competencies - Student understands the need for lifelong learning, can inspire and organize the learning process of other people, understands the need and ability to self-education, shows the ability to work in a team.



## Course objective

The aim of the course is to familiarize students with the history of aviation and astronautics in the direction of technical aspects

## Course-related learning outcomes

### Knowledge

has a basic knowledge of the history of aviation and astronautics, especially aircraft and space engines, major events and figures that have contributed to the development of specific fields of science relevant to human development, as well as the latest trends in the construction of machinery and equipment

### Skills

1. has the ability to self-study using modern teaching tools, such as remote lectures, websites and databases, didactic programs, e-books
2. 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

1. understands the need to learn throughout life; can inspire and organize the learning process of other people
2. 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:

Passing the lecture - one-choice test

## Programme content

The earliest attempts, aviation pioneers - the first engine flights, airships, World War I, the beginnings of aviation, inter-war aviation, World War II, jets, rotorcraft, air force 1945 - 1960, bomber time, cold war 1960 - 1990, transport aviation after 1960, advances in cosmonautics, military aviation

## Teaching methods

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

## Bibliography

### Basic

1. Historia lotnictwa, od maszyny latającej Leonarda da Vinci do podboju kosmosu - Riccardo Niccoli
2. Historia lotnictwa w Polsce - wielu autorów, wydawnictwo Carta blanca



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3. Historia Lotnictwa. Od Pierwszych Dwupłatowców Po Podbój Kosmosu - David Simons

Additional

1. Dzieje lotnictwa - Jim Winchester

2. Historia lotnictwa - Robert Jackson

3. FDR and Civil Aviation - Alan P. Dobson

**Breakdown of average student's workload**

	Hours	ECTS
Total workload	30	1,0
Classes requiring direct contact with the teacher	15	0,5
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) <sup>1</sup>	15	0,5

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