POZNAN UNIVERSITY OF TECHNOLOGY

COURSE DESCRIPTION CARD - SYLLABUS

Course name
Analyzes and simulations

Course

Field of study	Year/Semester
Aerospace Engineering	1/2
Area of study (specialization)	Profile of study
	practical
Level of study	Course offered in
Second-cycle studies	polish
Form of study	Requirements
full-time	elective

Number of hours

Lecture	Laboratory classes	Other (e.g. online)
30	0	0
Tutorials	Projects/seminars	
15	15	

Number of credit points

4

Lecturers

Responsible for the course/lecturer:

Artur Kinowski

email: artur.kinowski@pansa.pl

Polska Agencja Żeglugi Powietrznej

ul. Wieżowa 8 02-147 Warszawa

Responsible for the course/lecturer:

Prerequisites

Course objective

Course-related learning outcomes

Knowledge

1. Has extended knowledge necessary to understand the profile subjects and specialist knowledge about the construction, methods of construction, production, operation, air traffic management, safety systems, impact on the economy, society and the environment in the field of aviation and cosmonautics [K2A_W01]

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2. Has an organized and theoretically founded knowledge of computer-aided manufacturing methods and their application in industry [K2A_W09]

3. Has knowledge of how to develop research methodology [K2A_W19]

Skills

1. Has the ability to self-educate with the use of modern teaching tools, such as remote lectures, websites and databases, teaching programs, e-books [K2A_U03]

2. Can obtain information from literature, the Internet, databases and other sources. Can integrate the obtained information, interpret and draw conclusions from it, and create and justify opinions [K2A_U04]

3. Can use formulas and tables, technical and economic calculations with the use of a spreadsheet, programming tools of his own authorship, specialized software [K2A_U05]

Social competences

1. 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 case of difficulties in solving the problem on its own [K2A_K02]

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 made [K2A_K03]

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lecture: written exam (test)

Programme content

Teaching methods

Informative (conventional) lecture (transfer of information in a systematic way) - can be (propedeutical) or monographic (specialist)

Seminar lecture ("external dialogue" of the lecturer with the student; students participate in solving the problem)

Bibliography

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Basic

Additional

1. Zarządzanie ruchem lotniczym w przestrzeni powietrznej RP, WLOP, Warszawa 2002.

2. Ustawa Prawo Lotnicze

3. Rucińska D., Ruciński A., Tłoczyński D., Transport lotniczy. Ekonomika i organizacja, Gdańsk 2012

Breakdown of average student's workload

	Hours	ECTS
Total workload	105	4,0
Classes requiring direct contact with the teacher	70	3,0
Student's own work (literature studies, preparation for tutorials, preparation for tests and exam, project preparation)) [1]	35	1,0

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[1] delete or add other activities as appropriate