POZNAN UNIVERSITY OF TECHNOLOGY

EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)
pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

COURSE DESCRIPTION CARD - SYLLABUS

Course name
Unmaned Aerial Vehicle
Course

Field of study	Year/Semester
Aerospace Engineering	2/3
Area of study (specialization)	Profile of study
–	general academic
Level of study	Course offered in
First-cycle studies	polish
Form of study	Requirements
part-time	compulsory

Number of hours

Lecture	Laboratory classes	Other (e.g. online)
9	0	0
Tutorials	Projects/seminars	
9	0	

Number of credit points
2

Lecturers

Responsible for the course/lecturer:

dr Jędrzej Łukasiewicz
email: jedrzej.lukasiewiczl@put.poznan.pl
tel. 61 2244511
Wydzial Inżynierii Lądowej i Transportu
ul. Piotrowo 3, 60-965 Poznań

Responsible for the course/lecturer:

Prerequisites

Knowledge:
Basics of mathematics, chemistry and physics.
Skills:
Using literature (textbooks, internet), the ability to perceive lecture content
Social competences:
Awareness of the need to deepen engineering knowledge and its place in everyday life

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Course objective

Provide students with basic knowledge in the field of flight organization and piloting of unmanned aerial vehicles in the scope specified by the program content appropriate for the field of study.

Course-related learning outcomes

Knowledge

1. has structured, theoretically founded specialist knowledge in the field of on-board equipment: as well as on-board and terrestrial electronic communication systems, remote sensing systems, observation systems, satellite navigation systems

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

3. 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

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 evaluate his knowledge and received content, recognize the importance of knowledge in solving cognitive and practical problems and consult experts in the event of difficulties with solving the problem on his own

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Lecture: Assessment of knowledge and skills on the basis of a test
Exercises: assessing solutions to tasks

Programme content

1. Construction of unmanned aerial vehicles,

2. Aviation law with regard to unmanned aerial vehicles,

3. Rules for the performance of flights with unmanned aerial vehicles,

4. Flight safety and dangerous situations.

Teaching methods

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

Bibliography

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Basic

1. Drony dla początkujących, Terry Kilby, Belinda Kilby

Additional

Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,0
Classes requiring direct contact with the teacher	30	1,0
Student's own work (literature studies, preparation for tutorials, preparation for tests) [1]	20	1,0

1 delete or add other activities as appropriate