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			
Pilotage of UAV			
Course			
Field of study		Year/Semester	
Aviation and cosmonautics		1/1	
Area of study (specialization)		Profile of study	
Unmanned Aerial Vehicles		general academic	
Level of study		Course offered in	
Second-cycle studies		polish	
Form of study		Requirements	
full-time		elective	
		Year/Semester	
		1/1	
		Profile of study	
		general academic	
		Course offered in	
		polish	
		Requirements	
		elective	
Number of hours			
Lecture	Laboratory classes	other (e.g. online)	
0	60	0	
Tutorials	Projects/seminars		
0	0		
Number of credit points			
4			
Lecturers			
Responsible for the course/lecturer:		Responsible for the course/lecturer:	
dr Jędrzej Łukasiewicz		Responsible for the course/lecturer:	
email: jedrzej.lukasiewicz@put.pc	znan.pl		
tel. 61 224 45 11			
Wydział Inżynierii Lądowej i Trans	portu		
ul. Piotrowo 3, 60-965 Poznań			
Prereguisites			

Prerequisites

Knowledge:

The student has a basic knowledge of UAV construction, aviation law and the rules of UAV flights Skills:

The student is able to analyze complex processes: identify and describe their component parts. Social competences:

The student is able to cooperate in a group, assuming various roles in it. The student is able to determine the priorities important in solving the tasks set before him. The student shows independence in solving problems, gaining and improving the acquired knowledge and skills.

Course objective

To acquaint students with issues related to the pilotage of unmanned aerial vehicles



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Course-related learning outcomes

Knowledge

1. Has knowledge of the use of unmanned aerial vehicles, their operation and procedures used in UAV traffic

2. Has extended knowledge in the field of construction, piloting and the possibility of using unmanned aerial vehicles in various areas of human activity

Skills

1. Is able to plan and perform a flight on an unmanned aerial vehicle, taking into account the availability of airspace, terrain obstacles, UAV capabilities and the type of flight

2. Can lead the process of designing an unmanned aircraft and its operation based on known components and flight physics

Social competence

1. Is ready to critically evaluate the possessed knowledge and perceived content, recognize the importance of knowledge in solving cognitive and practical problems and consult experts in case of difficulties with solving the problem on its own

2. Can properly define priorities for the implementation of tasks set by himself or others

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows: Laboratories: a final test covering the issues discussed in class.

Programme content

Laboratories:

- 1. exercises carried out on a flight simulator,
- 2. exercises carried out with the use of unmanned aerial vehicles, legal basis

Teaching methods

Practical training with the use of flight simulators and a computer or unmanned aerial vehicle flights

Bibliography

Basic

- 1. Aviation Law Act
- 2. Regulations to the Aviation Law regarding unmanned aerial vehicles

Additional

1. Recommendations of the President of the Civil Aviation Authority regarding the safe performance of UAV flights

Breakdown of average student's workload

	Hours	ECTS
Total workload	100	4,0
Classes requiring direct contact with the teacher	70	3,0
Student's own work (preparation for laboratory classess, praparation for exam) ¹	30	1,0

¹ delete or add other activities as appropriate