



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Construction of the Unmanned Aerial Vehicles [S2LiK1-BSP>BBSP]

Course

Field of study

Aerospace Engineering

Year/Semester

1/2

Area of study (specialization)

Unmanned Aerial Vehicles

Profile of study

general academic

Level of study

second-cycle

Course offered in

polish

Form of study

full-time

Requirements

compulsory

Number of hours

Lecture

15

Laboratory classes

0

Other (e.g. online)

0

Tutorials

15

Projects/seminars

0

Number of credit points

1,00

Coordinators

dr Jędrzej Łukasiewicz

jedrzej.lukasiewicz@put.poznan.pl

Lecturers

Prerequisites

Knowledge: The student has a basic knowledge of the Aviation Law Act 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 construction of unmanned aerial vehicles

Course-related learning outcomes

Knowledge:

1. has detailed knowledge related to selected issues in the field of manned and unmanned aircraft construction, in the field of on-board equipment, control systems, communication and registration systems, life support systems, automation of individual systems
2. has detailed knowledge related to selected issues in the field of manned and unmanned spacecraft construction, in the field of on-board equipment, control systems, communication and recording

systems, life support systems, satellite navigation systems, teletaction, image recognition, automation of individual systems

Skills:

1. can analyze facilities and technical solutions, can search in catalogs and on manufacturers' websites, ready components of machines and devices, including means and devices for transport and storage, assess their suitability for use in own technical and organizational projects
2. can use basic technical standards regarding unification, safety and recycling

Social competence

1. 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
2. is able to properly define the priorities for the implementation of the tasks set by himself or others

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

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Lecture: exam covering the issues discussed in class

Programme content

LECTURE:

1. Construction of unmanned aerial vehicles,
2. sensors and detectors to improve flight safety,
3. communication systems BSP - pilot
4. construction and operation of on-board systems

Teaching methods

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

Bibliography

Basic

1. Mechanika lotu modeli latających – J.Staszek
2. Drony - teoria i praktyka, M.Szczepkowski, B.Bartkiewicz, P.Kruszewski

Additional

Breakdown of average student's workload

	Hours	ECTS
Total workload	30	1,00
Classes requiring direct contact with the teacher	30	1,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	0	0,00