



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Undergraduate practice [S2LiK1>PZ]

Course

Field of study

Aerospace Engineering

Year/Semester

1/1

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

0

Laboratory classes

0

Other

120

Tutorials

0

Projects/seminars

0

Number of credit points

4,00

Coordinators

dr inż. Mateusz Nowak

mateusz.s.nowak@put.poznan.pl

Lecturers

Prerequisites

Knowledge: The student has knowledge of the applicable rules for the implementation of internships. Student knows the internship regulations and the conditions for passing them. Has a basic knowledge of the issues covered by the study program. Skills: The student has the ability to creatively use the knowledge acquired during studies Social competences: The student is able to work in a working group. Can transparently distribute tasks in the group. He can correctly interpret and perform the received tasks and is able to make a verbal presentation of the results of his work

Course objective

Verification of the theoretical knowledge possessed by the student with reality, gaining new professional experience in real working conditions.

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

for selected specialties: Civil Aviation, UAV

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, teledetection, image recognition, automation of individual systems

Skills:

1. is able to use the following languages: native and international to a degree enabling the understanding of technical texts and writing technical descriptions of machines in the field of aviation and aerospace using dictionaries (knowledge of technical terminology)
2. can use formulas and tables, technical and economic calculations with the use of a spreadsheet, programming tools of his own authorship, specialized software
3. can draw a diagram and a complex machine element in accordance with the rules of a technical drawing, can create a system diagram, select elements and perform basic calculations of the electrical and electronic system of machines or aerospace equipment
4. can analyze objects and technical solutions, can search in catalogs and on manufacturers' websites, ready components of machines and devices, including means and transport and storage devices, assess their suitability for use in their own technical and organizational projects

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 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.
3. 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

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Learning outcomes presented above are verified as follows:

Completion of the internship on the basis of a report on the implementation of internships, certified by the company, assessment of the internship tutor by the company.

Programme content

Getting acquainted with the functioning of production or service enterprises that carry out activities related to the design, production or operation in the field of aviation and aerospace

Course topics

none

Teaching methods

Project method (individual or team implementation of a large, multi-stage cognitive or practical task, the effect of which is the creation of a work).

Bibliography

Basic

1. Rules for the implementation of internships at WILiT
2. Framework internship program at WILiT
3. Specimens of documents necessary for the implementation of the internship, agreement, report, detailed internship program

Additional

Breakdown of average student's workload

	Hours	ECTS
Total workload	122	4,00
Classes requiring direct contact with the teacher	2	0,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	120	4,00