



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Processing and presentation of research results

Course

Field of study

Aerospace Engineering

Area of study (specialization)

Level of study

First-cycle studies

Form of study

part-time

Year/Semester

3/7

Profile of study

general academic

Course offered in

Polish

Requirements

compulsory

Number of hours

Lecture

0

Laboratory classes

9

Other (e.g. online)

0

Tutorials

0

Projects/seminars

0

Number of credit points

2

Lecturers

Responsible for the course/lecturer:

PhD Remigiusz Jasiński

Responsible for the course/lecturer:

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Prerequisites

Basic information on the use of Microsoft office. Ability to analyze measurement uncertainties.

Knowledge of statistics.

Course objective

Acquainting with the methods of presenting data with the use of multimedia tools. Preparation for data processing with a focus on the correct presentation of research results in the diploma thesis

Course-related learning outcomes

Knowledge

1. Knows the general principles of creating and developing forms of individual entrepreneurship, also



taking into account time management, as well as the skills of proper self-presentation, using knowledge in the field of science and scientific disciplines relevant to aviation and astronautics - [K2A_W26]

2. Has knowledge of the method of presenting test results in the form of tables and graphs, performing the analysis of measurement uncertainties - [K2A_W29]

Skills

1. Can use formulas and tables, technical and economic calculations using a spreadsheet, specialized software - [K2A_U05]

2. Can prepare and present a short verbal and multimedia presentation on the results of an engineering task - [K2A_U08]

Social competences

1. Understands the need for lifelong learning; can inspire and organize the learning process of other people - [K2A_K01]

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 the event of difficulties with solving the problem on their own - [K2A_K02]

3. Can interact and work in a group, taking different roles in it - [K2A_K04]

4. Can properly define the priorities for the implementation of tasks defined by himself or others - [K2A_K05]

5. Is aware of the social role of a technical university graduate, and especially understands the need to formulate and convey to the society, in particular through the mass media, information and opinions on technological achievements and other aspects of engineering activities; makes efforts to provide such information and opinions in a generally understandable manner - [K2A_K08]

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Laboratory: assessment on the basis of reports carried out in accordance with the guidelines of the tutor

Programme content

LAB

Analysis of measurement uncertainties, methods of recording measurement results, transforming and sorting data, creating graphs of various types, methods of placing and describing data in theses, basics of public speaking, methodology of preparing a presentation.

Teaching methods

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



The exercise method (subject exercises, practice exercises) - in the form of auditorium exercises (application of acquired knowledge in practice - may take various forms: solving cognitive tasks or training psychomotor skills; transforming a conscious activity into a habit through repetition)

Bibliography

Basic

1. R. Nowak, „Statystyka dla fizyków. Ćwiczenia”, Wydawnictwo Naukowe PWN, 2002
2. R. Taylor „Wstęp do analizy błęd pomiarowego”, Wydawnictwo Naukowe PWN, 1995
3. Skonieczny T., Zasady tworzenia prezentacji multimedialnych, Centrum Edukacji Nauczycieli w Koszalinie

Additional

1. Abramowicz H., „Jak analizować wyniki pomiarów?”, Wydawnictwo Naukowe PWN, 1992
2. Wachowicz E., Bryl R., Przygotowanie dobrej prezentacji, Instytut Fizyki Doświadczalnej Uniwersytetu Wrocławskiego

Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,0
Classes requiring direct contact with the teacher	25	1,0
Student's own work (literature studies, preparation for tutorials, preparation for test) ¹	25	1,0

¹ delete or add other activities as appropriate