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
Processing and presentation of results

Course

Field of study	Year/Semester
Aviation	4/7
Area of study (specialization)	Profile of study
Air Traffic Organization	general academic
Level of study	Course offered in
First-cycle studies	Polish
Form of study	Requirements
full-time	compulsory

Number of hours

Lecture	Laboratory classes	Other (e.g. online)
15	15	0
Tutorials	Projects/seminars	
0	0	

Number of credit points

2

Lecturers

Responsible for the course/lecturer:

mgr inż. Kamila Przespolewska-Gdowik

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Wydział Inżynierii Lądowej i Transportu

ul. Piotrowo 3, 60-965 Poznań

Responsible for the course/lecturer:

Prerequisites

Knowledge: The student has basic knowledge of mathematics and can use SI units.

Skills: The student is able to use the basic computer programs used in the processing and presentation of results.

Social competences: The student is able to work in a group and knows the rules of discussion.

Course objective

The aim of the course is to familiarize the student with the rules of processing and presentation of scientific research results, to familiarize them with the correct form of data recording, the most important elements of the development of scientific results and their presentation.

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Course-related learning outcomes

Knowledge

1. Student has knowledge about the way of presenting research results in a tabular and graph form, performing measurement uncertainty analysis [L1_W10].

2. Student has basic knowledge about research methods and how to prepare and conduct scientific research, and knows the principles of editing a scientific paper [L1_W13].

Skills

1. Student is able to properly use the information and communication techniques applicable at various stages of aviation projects [L_U02].

2. Student is able to prepare a short scientific paper, maintaining basic editorial principles. Student is able to choose the appropriate methods for the research and is able to perform a basic analysis of the results [L_U19].

Social competences

1. Student is aware of the importance of knowledge in solving engineering problems and knows examples and understands the reasons of malfunctioning engineering projects that led to serious financial, social losses or serious loss of health or even life [L_K02].

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

LECTURE: assessment of knowledge and skills on the written or oral test based on the explanation of selected issues

LABORATORY CLASSES: : assessment of knowledge and skills on the basis of reports from classes prepared by the student, optional assessment of students' knowledge before starting the classes

Programme content

Presentation, public appearances, appearances in front of the camera and the transformation of destructive stress into constructive, the art of effective and precise communication, creativity, talking about complex things in an understandable way, personal development, lifelong learning.

Effective problem solving in practice; case studies, presentation of results using the MS Office suite and programming tools, data acquisition and evaluation, the most important elements of graphs and presentations.

Teaching methods

Informative (conventional) lecture (transfer of information in a systematic way) - can be (propedeutical) or monographic (specialist)

Laboratory (experiment) method (students conduct experiments independently)

Bibliography

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Basic

1. Pomiary wielkości fizycznych: opracowanie i prezentacja wyników. Zofia Kolek. Wydawnictwo Uniwersytetu Ekonomicznego, Kraków 2009.

2. Pomiar i przetwarzanie wyników badań w pedagogice empirycznej. Janusz Gnitecki ; Uniwersytet im. Adama Mickiewicza w Poznaniu. Wydawnictwo Naukowe UAM 1992.

3. Komputer i pomiary: pomiary z użyciem Z-80 - nieskomplikowana analiza i przetwarzanie wyników / Hubert Joas ; z jęz. niem tł. Barbara Szatyńska. Wydawnictwa Komunikacji i Łączności 1990.

Additional

1. www.ncbir.gov.pl

2. Metodyka transformacji wyników badań naukowych do zastosowań praktycznych : raport. ndrzej H. Jasiński, Dominik Ludwicki, Studia i Materiały / Wydział Zarządzania. Uniwersytet Warszawski, Warszawa 2007.

Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,0
Classes requiring direct contact with the teacher	30	1,5
Student's own work (literature studies, preparation for classes, preparation for tests,) [1]	20	0,5

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[1] delete or add other activities as appropriate