



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Pre-seminar

Course

Field of study

Aerospace Engineering

Area of study (specialization)

-

Level of study

First-cycle studies

Form of study

part-time

Year/Semester

3/6

Profile of study

general academic

Course offered in

polish

Requirements

compulsory

Number of hours

Lecture

0

Laboratory classes

0

Other (e.g. online)

0

Tutorials

0

Projects/seminars

9

Number of credit points

1

Lecturers

Responsible for the course/lecturer:

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Faculty of Civil Engineering and Transport

ul. Piotrowo 3; 60-965 Poznań

Responsible for the course/lecturer:

Prerequisites

Knowledge: Knowledge of issues related to the diploma topic

Skills: Can apply the scientific method in solving problems

Social competences: Knows the limitations of own knowledge and skills; can precisely formulate questions, understand the need for further education

Course objective

Deepening the knowledge and skills on the organization and conduct of scientific and technical works and the presentation of the results of these works



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 basic knowledge of research methods and how to prepare and conduct research, and knows the rules of editing a research paper [K2A_W34]

Skills

1. is able to communicate with the use of various techniques in the professional environment and other environments, using the formal notation of the structure, technical drawing, concepts and definitions of the scope of the field of study [P7S_UK, K2A_U02]
2. Is able to prepare a short research paper, respecting the basic editorial rules. He can choose appropriate methods for the conducted research and is able to carry out a basic analysis of the results [K2A_U25].

Social competences

1. understands the need for lifelong learning; can inspire and organize the learning process of other people [P7S_UU, K2A_K01]
2. Is ready to critically assess 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 its own [P7S_KK, K2A_K02]
3. is able to cooperate and work in a group, assuming different roles in it [P7S_UO, K2A_K04]
4. is able to properly define the priorities for the implementation of the tasks defined by himself or others [P7S_UO, K2A_K05]
5. correctly identifies and resolves dilemmas related to the profession [P7S_KR, K2A_K06]
6. 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 the achievements of technology and other aspects of engineering activities; makes efforts to provide such information and opinions in a commonly understandable manner [P7S_KO, K2A_K08]

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:
based on the work completed

Programme content

General part: types of qualification works, including diploma theses and rules for their implementation, requirements for diploma theses. Formulation of the technical problem and thesis, literature study, methodological part of the thesis, presentation of research results, development of observations and



conclusions. Principles of work editing, editing support, development of graphic elements, preparation of work for printing and duplication.

Specialist part: reporting on the dissertations carried out by the authors and discussion on them.

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. Good manners in science. Collection of Principles and Guidelines (3rd edition), Ed. PAN Warsaw 2001
2. Leszek W., Selected methodological issues of empirical research. Institute of Sustainable Technologies, Radom 2006
3. Szubert-Zarzczyński U., Technique of writing scientific papers, Wyd. Higher School of Management

Additional

1. Wojciechowska R., Methodical guide to writing a thesis. Ed. DIFIN, 2010

Breakdown of average student's workload

	Hours	ECTS
Total workload	25	1,0
Classes requiring direct contact with the teacher	10	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹	15	0,0

¹ delete or add other activities as appropriate