# COURSE DESCRIPTION CARD - SYLLABUS

Course name
Diploma seminar

## Course

Field of study
Aerospace Engineering

Year/Semester
2/3

Area of study (specialization)

Profile of study
general academic

Level of study
Second-cycle studies

Course offered in
Polish

Form of study
full-time

Requirements
compulsory

## Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars
15

## Number of credit points

20

## Lecturers

Responsible for the course/lecturer:
Prof. dr hab. inż. Andrzej Frąckowiak

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tel. 61 665 22 12

Faculty of Environmental and Energy Engineering

Piotrowo 3, PL60-965 Poznan

Responsible for the course/lecturer:

## Prerequisites

KNOWLEDGE: Student has required knowledge, necessary for understanding of profile subjects and specialist knowledge about construction, methods of construction, manufacturing, exploitation, air traffic management, security systems, impact on the economy, society and environment of the aviation and cosmonautics for selected specialties: 1. Aeronautical Engineering.

SKILLS: Student has the ability to self-study using modern teaching tools, such as remote lectures, websites and databases, didactic programs, e-books. Student can obtain information from literature, the Internet, databases and other sources. Can integrate the information obtained and interpret conclusions and create and justify opinions.

SOCIAL COMPETENCES: Student understands the need to learn throughout life; he can inspire and organize the learning process of other people.

## Course objective

To prepare a masters degree project finalized with a degree thesis presentation.

## Course-related learning outcomes

### Knowledge

Student has extensive knowledge, necessary for understanding of profile subjects and specialist knowledge about construction, methods of construction, manufacturing, exploitation, air traffic management, security systems, impact on the economy, society and environment of the aviation and cosmonautics for selected specialties: Aeronautical Engineering.

### Skills

Student is able to communicate using various techniques in a professional environment and other environments using a formal record of construction, technical drawing, concepts and definition of the scope of the studied field of study. Student has the ability to self-study using modern teaching tools, such as remote lectures, websites and databases, didactic programs, e-books. Student can obtain information from literature, the Internet, databases and other sources. Can integrate the information obtained and interpret conclusions and create and justify opinions. Student can prepare and present a short verbal and multimedia presentation devoted to the results of an engineering task.

### Social competences

Student understands the need to learn throughout life; he can inspire and organize the learning process of other people. Student 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 case of difficulties in solving the problem. Student is aware of the social role of a technical university graduate, and especially understands the need to formulate and communicate to the public, in particular through mass media, information and opinions on the achievements of technology and other aspects of engineering activities; he makes efforts to provide such information and opinions in a generally understandable way.

## Methods for verifying learning outcomes and assessment criteria

### Learning outcomes presented above are verified as follows:

The knowledge acquired during the lecture is verified by 45-minute tests carried out during the last lecture. The test consists of 6-10 questions with different scores. Passing threshold: 50% of points. Final issues, on the basis of which the questions are developed, will be sent to students by e-mail using the university's e-mail system.

The skills acquired during the laboratory classes are verified on the basis of 4 short programs written by the student in the C language and one in any chosen language. The pass mark is 4 correctly functioning programs.

## Programme content

To acquaint students with the schedule of writing of master thesis and its proper drafting.

## Teaching methods

Evaluation on the basis of information about the prepared stages of the Master thesis. Project assessment (P)

## Bibliography

Basic

Literature adequate to subject of thesis

Additional

Literature adequate to subject of thesis

## Breakdown of average student's workload

| | Hours | ECTS |
|---|---|---|
| Total workload | 500 | 20,0 |
| Classes requiring direct contact with the teacher | 21 | 0,8 |
| Student's own work (literature studies, preparation for seminar, project preparation ) [1] | 500 | 20,0 |

[1] delete or add other activities as appropriate