



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Diploma Thesis with Elements of Scientific Research

### Course

Field of study

Year/Semester

Civil Engineering

2/3

Area of study (specialization)

Profile of study

Construction Engineering and Management

general academic

Level of study

Course offered in

Second-cycle studies

English

Form of study

Requirements

full-time

compulsory

### Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

10

### Number of credit points

16

### Lecturers

Responsible for the course/lecturer:

dr hab. inż. Jerzy Paślawski, prof. PUT

Responsible for the course/lecturer:

### Prerequisites

Knowledge obtained as part of the courses implemented in the second-cycle program in the field of Civil Engineering, specializing in Construction Engineering and Management

Skills acquired during the second-cycle studies in Civil Engineering, specializing in Construction Engineering and Management

Ability to work independently on a given task and teamwork also

### Course objective

Preparation of the student for independent or team performance of the master's thesis.

### Course-related learning outcomes

Knowledge

1. Knows regulations regarding the protection of industrial property and copyright



### Skills

1. He/she is able to applying scientific rules and skills, are able to formulate and test hypotheses related to simple research problems, in order to solve engineering, technological and organisational problems in construction engineering; can prepare studies preparing for research work
2. He/she is able to obtain information from literature, databases and other properly selected sources; is able to integrate obtained information, make their creative interpretation and assessment, as well as draw conclusions, formulate and substantiate opinions and present them.
3. He/she is able to independently plan and implement their own lifelong learning and direct others in this field and use their knowledge in the field of construction to communicate on specialized topics with diverse audiences, discuss and debate on important problems of the construction industry.
4. He/she can manage team work, interact with other people as part of team work, and take a leading role in teams.

### Social competences

1. He/she is responsible for the reliability of the results of his work and the work of his team
2. He/she is responsible for the safety of own and team work
3. He/she is ready to independently supplement and expand knowledge in the field of modern processes and technologies in construction
4. He/she understands the need to protect copyrights and is ready to comply with and develop the principles of professional ethics, as well as care for the development of the achievements of the profession of civil engineer and uphold the ethos of the profession

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Systematic consultations checking the substantive correctness and stage of the master's thesis.

The grade is awarded by the supervisor of the Master thesis.

### Programme content

Program content in accordance with the detailed tasks given in the topic card of the master's thesis.

### Teaching methods

Regular meetings for consultation of the results of the Master thesis

### Bibliography

#### Basic

1. Scientific and technical literature, standards, guidelines, technical and technological requirements obtained by the graduate student in accordance with the topic of the diploma thesis



Additional

Procedures, recommendations and detailed standards depending on the chosen research topic

### Breakdown of average student's workload

	Hours	ECTS
Total workload	400	16,0
Classes requiring direct contact with the teacher	10	5,0
Student's own work (literature studies, preparation for laboratory tests, preparation for the exam, preparation of the diploma thesis, preparation of a presentation) <sup>1</sup>	390	11,0

<sup>1</sup> delete or add other activities as appropriate