



## 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

15

### Number of credit points

4

### Lecturers

Responsible for the course/lecturer:

Responsible for the course/lecturer:

dr hab. inż. Jerzy PASŁAWSKI, prof. PUT

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Faculty of Civil and Transport Engineering

PL 60-965 Poznan, Piotrowo 5

### Prerequisites

Student has advanced knowledge in accordance with the program of construction studies and selected topics

Student is able to prepare multimedia presentations, is able to obtain information

Student demonstrates readiness to develop his knowledge and skills as well as teamwork, having in mind the preparation to perform responsible functions in construction

### Course objective

The aim of the diploma seminar is: (1) to provide students with knowledge on the correct development of the master's thesis, (2) to shape students' awareness of the responsibility associated with the legal



principles of using available studies, literature and other sources of information, (3) joint discussion on issues discussed in as part of the diploma process and inspiring to search for new solutions

### Course-related learning outcomes

#### Knowledge

Student has knowledge of development trends and the most important new achievements in the fields of science and scientific disciplines relevant to the field of study being studied and related scientific disciplines

know in detail the Act of Building Law, standards and recommendations for building unit design: Polish standards (PN) and European standards (EN) as well as the technical conditions of constructing selected building units

know the legal regulations in the field of industrial and intellectual property protection

#### Skills

Student is able to obtain information from literature, databases, and other properly selected sources, also in English and other languages, is able to integrate obtained information, interpret, as well as critically evaluate it, draw conclusions, and justify its opinions

are able to obtain information from literature, databases and other properly selected information sources; can integrate the obtained information, interpret and evaluate it as well as draw conclusions, formulate, justify, discuss and present opinions

can apply the obtained knowledge into building engineering in order to communicate with different target groups using specialized terminology and discuss important problems of building industry

#### Social competences

are ready to autonomously complete and broaden (extend) knowledge in the field of modern processes and technologies of building engineering

understand that it is necessary to protect the intellectual property, are ready to obey the principles of professional ethics and to take care of the achievements and traditions of the engineer's profession

Student is able to think and act in a creative and entrepreneurial way

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Completion of the seminar based on:

- assessment of the presentation on the chosen topic of the thesis,
- participate in the discussion about own thesis and colleagues.

### Programme content



Purpose and principles of its preparation of the MSc thesis and its typical structure. Main parts of the Master Thesis. Methods for planning and implementing the diploma thesis. Typical problems when writing a thesis. Rules for using available sources of information. General rules of making presentation. Presentation of the rules for conducting the diploma exam. Multimedia presentations prepared by students and joint discussion in the seminar group.

### Teaching methods

Conversational lecture + Multimedia presentations in the form of discussions

### Bibliography

Basic

1. Wrycza-Bekier J. Kreatywna praca dyplomowa, Wyd. Helion, Gliwice 2011
2. Szkutnik Z., Metodyka pisania pracy dyplomowej. Skrypt dla studentów, Poznań 2005
3. Kozłowski R., Praktyczny sposób pisania prac dyplomowych z wykorzystaniem programu komputerowego i Internetu, Warszawa 2009
4. Regulamin studiów 1. i 2.stopnia oraz jednolitych magisterskich uchwalony przez Senat Akademicki PP Uchwałą Nr 154/2016-2020 z 24.04.2019

Additional

1. USTAWA z dnia 20 lipca 2018 r. Prawo o szkolnictwie wyższym i nauce
2. Dembecka W., Metodyka studiowania w uczelni technicznej, Wyd. Pol. Poznańskiej Poznań 1994.

### Breakdown of average student's workload

	Hours	ECTS
Total workload	100	4,0
Classes requiring direct contact with the teacher	15	0,5
Student's own work (literature studies, preparation for tutorials, preparation for diploma exam, preparation for presentation of diploma topic) <sup>1</sup>	85	3,5

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