# COURSE DESCRIPTION CARD - SYLLABUS

Course name
Diploma seminar [S2Bud1E-KB>SD]

## Course

Field of study
Civil Engineering

Year/Semester
2/3

Area of study (specialization)
Structural Engineering

Profile of study
general academic

Level of study
second-cycle

Course offered in
English

Form of study
full-time

Requirements
compulsory

## Number of hours

Lecture
0

Laboratory classes
0

Other
0

Tutorials
15

Projects/seminars
0

## Number of credit points

4,00

## Coordinators

dr hab. inż. Zbigniew Pozorski prof. PP
zbigniew.pozorski@put.poznan.pl

## Lecturers

## Prerequisites

Knowledge, skills and competences acquired during the education process. The ability to formulate and solve technical problems in the field of civil engineering.

## Course objective

Presentation of the requirements related to taking the diploma examination, preparation of the master"s thesis and its defense. Summarizing and extending the acquired knowledge and skills of students. Preparation of students for the public defense of the diploma thesis.

## Course-related learning outcomes

Knowledge:
1. The student knows in detail the principles of analysing, constructing and dimensioning elements and connections in selected building structures. (KB_W02)
2. The student knows in detail the rules of design, construction and operation of selected building units
3. The student knows 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.)

Skills:
1. Using their knowledge, the student is able to choose the appropriate methods and tools (analytical, numerical, simulation, experimental) to solve technical problems
2. Applying scientific rules and skills, the student is 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
3. The student is 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
4. The student can make plans autonomously, carry out lifelong learning processes and direct others in this respect; 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:
1. The student takes responsibility for the reliability of working results and their interpretation
2. The student is ready to autonomously complete and broaden (extend) knowledge in the field of modern processes and technologies of building engineering
3. The student understands 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

## Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Learning outcomes presented above are verified as follows:
Evaluation of the progress presented by the student in the implementation of the diploma thesis, the condition for passing is obtaining a minimum satisfactory mark.

## Programme content

Discussion of the rules for writing diploma theses. Presentation of methods for solving scientific problems. Discussing the issues of diploma theses. Learning how to present your work.

## Course topics

1. Principles and requirements for diploma theses
2. Presentation of the subject of theses
3. Presentation of the concept of the thesis and the scope of problems to be solved
4. Presentation of preliminary solutions or analyzes concerning the diploma thesis
5. Discussion of the progress of work
6. Presentation of theses
7. Presentation of theses

## Teaching methods

Tutorials: problem method, seminar, presentation method

## Bibliography

Basic
1. Scientific and technical literature necessary to prepare the diploma thesis
2. Technical conditions to be met by buildings and their location
3. PUT study regulations
Additional
1. Szkutnik Z., Metodyka pisania pracy dyplomowej, Poznań, 2005.
2. Opoka E., Uwagi o pisaniu i redagowaniu prac dyplomowych na studiach technicznych, Wydawnictwo Politechniki Śląskiej, Gliwice 1996

## Breakdown of average student's workload

| | Hours | ECTS |
|---|---|---|
| Total workload | 100 | 4,00 |
| Classes requiring direct contact with the teacher | 15 | 0,50 |
| Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation) | 85 | 3,50 |