



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Preparation of a diploma thesis [N1IŚrod2>SDZwW]

### Course

Field of study

Environmental Engineering

Year/Semester

5/9

Area of study (specialization)

–

Profile of study

general academic

Level of study

first-cycle

Course offered in

Polish

Form of study

part-time

Requirements

elective

### Number of hours

Lecture

0

Laboratory classes

0

Other

0

Tutorials

20

Projects/seminars

0

### Number of credit points

20,00

### Coordinators

prof. dr hab. inż. Piotr Oleśkowicz-Popiel  
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### Lecturers

### Prerequisites

1. Knowledge: Expanded and deepened general and specialized knowledge needed to formulate a technical problem as well as how to solve it. Knowledge of the requirements posed the preparation and implementation of the thesis. Knowledge of formal requirements for the diploma exam. 2. Skills: The ability to formulate a technical problem concerning the thesis and methods of solution of the problem. Ability to defend their thesis presentations. Ability to critically assess the problem and the methods adopted and has the ability to discuss and multimedia use. 3. Social competencies The student understands the need for lifelong learning; is able to inspire and organize the learning of others. The student is aware of the importance and understand the non-technical aspects and effects of engineering activities, including its impact on the environment and the associated responsibility for decisions.

### Course objective

The aim of the diploma seminar is a follow up to the studies gained knowledge and skills of public presentation developed theme as well as provide students with the principles of accession to the diploma exam, preparing a thesis and defend it.

### Course-related learning outcomes

#### Knowledge:

1. A graduate student has detailed knowledge related to selected issues of the studied field of study.
2. A graduate student has a basic knowledge of the development trends concerning fields of science and scientific disciplines relevant to the studied field of study
3. A graduate student has a basic knowledge necessary to understand the social, economic, legal and other non-technical conditions of engineering activities

#### Skills:

1. A graduate student is able to use information technology, Internet resources and other sources to search for information, communication and acquisition software supporting the work of the designer and managing construction works
2. A graduate student is able to use information and communication technologies relevant to the tasks typical engineering activities
3. A graduate student is able to plan and carry out experiments, including measurements and computer simulations, interpret the results and draw conclusions

#### Social competences:

1. A graduate student alone complements and extends the knowledge of modern techniques, processes and technologies
2. A graduate student is able to formulate opinions on issues related to the field of studies
3. A graduate student draws conclusions and describes the results of their own communicative multimedia presentations

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Evaluation of two prepared presentations and graduate student activity during seminars

### Programme content

To acquaint the graduate students with the principles of formal accession to the diploma exam (terms, conditions). The statutory requirements relating to the preparation of the thesis, forms, scope of work and time frames. Presentation by graduate students (in the form of two presentations), the subject of his thesis and possible discussion. Presentation by graduate students of interesting publications in the press and scientific-technical or non-related topic of the diploma, along with a possible discussion

### Course topics

none

### Teaching methods

seminar method, problem method, case study, discussion

### Bibliography

Basic:

bibliography from first-cycle studies

Additional:

bibliography from first-cycle studies

### Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2,00
Classes requiring direct contact with the teacher	20	1,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	30	1,00