## POZNAN UNIVERSITY OF TECHNOLOGY



### EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

## **COURSE DESCRIPTION CARD - SYLLABUS**

Course name

Preparation for scientific research

Course

Field of study Year/Semester

Civil Engineering 2/4

Area of study (specialization) Profile of study

Road, Bridge and Railway Engineering general academic
Level of study Course offered in

Second-cycle studies Polish

Form of study Requirements part-time compulsory

**Number of hours** 

Lecture Laboratory classes Other (e.g. online)

0 0

Tutorials Projects/seminars

10 0

**Number of credit points** 

16

### **Lecturers**

Responsible for the course/lecturer: Responsible for the course/lecturer:

dr hab. inż. Mieczysław Słowik, prof. PP

email: Mieczyslaw.Slowik@put.poznan.pl

tel. 61 665 2478

Faculty of Civil and Transport Engineering

Piotrowo 5, 60-965 Poznań

## **Prerequisites**

## 1. Knowledge:

Knowledge obtained as part of the subjects implemented in the second-cycle study program in the field of Construction Engineering, specializing in Road, Bridge and Railway Engineering

2 Skills:

- -Skills acquired in the course of second-cycle studies in the field of Construction Engineering, specializing in Road, Bridge and Railway Engineering
- 3 Social competences:

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Independent work on the assigned task

### **Course objective**

Preparing a student for an independent or team performance of a master's thesis.

### **Course-related learning outcomes**

### Knowledge

1. Knows the regulations in the field of industrial property protection and copyright.

#### Skills

- 1. Can obtain information from literature, databases and other properly selected sources; is able to integrate the obtained information, make its creative interpretation and evaluation, as well as draw conclusions, formulate and justify opinions and present them.
- 2. Can independently plan and implement their own lifelong learning and direct others in this area, and use her/his knowledge in the field of construction engineering in order to communicate on specialist topics with diverse audiences, discuss and debate important issues in the construction industry.
- 3. Can manage the team's work, interact with other people in team work and take a leading role in teams.

### Social competences

- 1. Is responsible for the reliability of the obtained results of his work and the work of her/his team.
- 2. Is responsible for the safety of own and team work
- 3. Is ready to independently supplement and expand knowledge in the field of modern processes and technologies in construction engineering
- 4. Understands the need to protect copyrights and is ready to observe and develop the principles of professional ethics, as well as care for the development of the achievements of the profession of civil engineer and maintain 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 the degree of advancement of the master's thesis.

The grade is issued by the supervisor of the master's thesis.

## **Programme content**

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

## **Teaching methods**

Consultation of the effects of the preparation of the master's thesis.

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## **Bibliography**

## Basic

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

Additional

# 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	390	11,0
laboratory classes/tutorials, preparation for tests/exam, project		
preparation) <sup>1</sup>		

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