



## 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

0

Tutorials

Projects/seminars

0

10

### Number of credit points

16

### Lecturers

Responsible for the course/lecturer:

Responsible for the course/lecturer:

dr hab. inż. Mieczysław Słowik, prof. PP

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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:



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.



## 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	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) <sup>1</sup>	390	15,0

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