



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Diploma seminar

### Course

Field of study

Transport

Area of study (specialization)

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

4/7

Profile of study

general academic

Course offered in

Polish

Requirements

elective

### Number of hours

Lecture

0

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

15

### Number of credit points

15

### Lecturers

Responsible for the course/lecturer:

dr hab. inż. Małgorzata Orczyk

malgorzata.orczyk@put.poznan.pl

dr hab. inż. Piotr Sawicki

email: piotr.sawicki@put.poznan.pl

Faculty of Civil and Transport Engineering

ul. Piotrowo 3, 60-965 Poznań

Responsible for the course/lecturer:

prof. dr hab. inż. Jerzy Merkisz

email: jerzy.merkisz@put.poznan.pl

dr hab. inż. Marian Jóska, prof. PP

email: marian.josko@put.poznan.pl

prof. dr hab. inż. Karol Nadolny

email: karol.nadolny@put.poznan.pl

### Prerequisites

Knowledge of issues related to the diploma thesis

Student is able to apply scientific methods in solving problems, carrying out experiments and drawing conclusions

Student knows the limitations of his/her own knowledge and skills; is able to precisely formulate questions, understand the need for further education



### Course objective

Expanding the knowledge and skills on the organization and conduct of scientific and technical works and the presentation of the results of these works.

### Course-related learning outcomes

#### Knowledge

Student has ordered, theoretically founded general knowledge in the field of technology, transport systems and various means of transport

Student has knowledge of ethical codes regarding transport engineering, is aware of the threats related to environmental protection and understands the specificity of mission-critical systems

Student has a basic knowledge of patents, the copyright and related rights act and the act on the protection of personal data and technology transfer, in particular with regard to transport solutions

#### Skills

Student is able to prepare and present, in Polish and English, a well-documented study of problems in the field of transport engineering, including an oral presentation

Student is able to organize, cooperate and work in a group, assuming various roles in it and is able to properly define priorities for the implementation of a task set by himself or others

Student is able to plan and implement the process of own permanent learning and knows the possibilities of further education (2nd and 3rd degree studies, postgraduate studies, courses conducted by universities, companies and professional organizations)

#### Social competences

Student understands that technology, knowledge and skills very quickly become obsolete

Student can think and act in an entrepreneurial way, incl. finding commercial applications, taking into account not only business benefits, but also social benefits of the conducted activity

Student is aware of the social role of a technical university graduate, in particular understands the need to formulate and convey to the society, in an appropriate form, information and opinions on engineering activities, technological achievements, as well as the achievements and traditions of the profession of a transport engineer

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Evaluation based on presentation of the concept of diploma thesis and obtained research results.

### Programme content

First part:



1. Basic rules related to the methodology of diploma thesis. Choosing a topic and defining a research problem. Structure of the diploma thesis. Formal requirements for the preparation of the diploma thesis.
2. Editing requirements: layout, language style, technique of writing work, quoting literature.
3. Copyright and plagiarism issues.
4. Preparation for the diploma exam.

Second part:

Individual presentations by students containing: the scope of work, topic of the thesis, research problem, initial structure of the work, literature study, stages related to the implementation of theoretical chapters of the work and practical part.

### Teaching methods

Multimedia presentation. Discussion on the presented issues.

### Bibliography

Basic

Opoka E., Uwagi o pisaniu i redagowaniu prac dyplomowych na studiach technicznych, Wyd. Politechniki Śląskiej, Gliwice 2003

Wojciechowska R., Przewodnik metodyczny pisania pracy dyplomowej. Wyd. DIFIN, 2010

Additional

Dobre obyczaje w nauce. Zbiór zasad i wytycznych (wyd. 3), Wyd. PAN Warszawa 2001

### Breakdown of average student's workload

	Hours	ECTS
Total workload	375	15,0
Classes requiring direct contact with the teacher	125	5,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) <sup>1</sup>	250	10,0

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