



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Diploma seminar

Course

Field of study

Year/Semester

Transport

4/7

Area of study (specialization)

Profile of study

general academic

Level of study

Course offered in

First-cycle studies

Polish

Form of study

Requirements

part-time

elective

Number of hours

Lecture

Laboratory classes

Other (e.g. online)

0

Tutorials

Projects/seminars

9

Number of credit points

2

Lecturers

Responsible for the course/lecturer:

dr hab. inż. Małgorzata Orczyk

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dr hab. inż. Piotr Sawicki

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Responsible for the course/lecturer:

prof. dr hab. inż. Jerzy Merkisz

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dr hab. inż. Marian Jóska, prof. PP

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prof. dr hab. inż. Karol Nadolny

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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 | 40 | 2,0 |
| Classes requiring direct contact with the teacher | 9 | 1,0 |
| Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹ | 31 | 1,0 |

¹ delete or add other activities as appropriate