



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Diploma seminar [S2Trans1-LogTr>SD]

Course

Field of study

Transport

Year/Semester

2/3

Area of study (specialization)

Logistics of Transport

Profile of study

general academic

Level of study

second-cycle

Course offered in

Polish

Form of study

full-time

Requirements

compulsory

Number of hours

Lecture

0

Laboratory classes

0

Other (e.g. online)

0

Tutorials

0

Projects/seminars

15

Number of credit points

2,00

Coordinators

dr hab. inż. Piotr Sawicki prof. PP
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Lecturers

Prerequisites

KNOWLEDGE: The student has advanced and in-depth knowledge of transport engineering, theoretical foundations, tools and means used to solve engineering problems. **SKILLS:** The student is able to plan and carry out experiments, including measurements and simulations, interpret the obtained results and draw conclusions as well as formulate and verify hypotheses related to complex engineering problems and simple research problems. **SOCIAL COMPETENCES:** The student understands that in computer science, knowledge and skills very quickly become outdated.

Course objective

The aim is to deepen the knowledge and skills on planning and conducting research works and the ability to present the results of these works.

Course-related learning outcomes

Knowledge:

Student knows advanced methods, techniques and tools used in solving complex engineering tasks and conducting research in a selected area of transport.

Student has knowledge of ethical codes related to scientific and research work in the field of transport

engineering.

Skills:

Student is able to obtain information from literature, databases and other sources (in Polish and English), integrate them, interpret and critically evaluate them, draw conclusions and formulate and exhaustively justify opinions.

Using among others conceptually new methods, the student is able to solve complex tasks in the field of transport engineering, including typical tasks and tasks with a research component.

The student is able to prepare and present a scientific study in Polish and English, presenting the results of scientific research or an oral presentation on specific issues in the field of transport engineering.

The student is able to determine the directions of further learning and implement the process of self-education, including other people.

Social competences:

Student understands the importance of using the latest knowledge in the field of transport engineering in solving research and practical problems.

Student understands the importance of popularizing activities regarding the latest achievements in the field of transport engineering.

Student is aware of the need to develop professional achievements and to comply with the rules of professional ethics.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

During the seminar, tasks related to the preparation of the thesis are carried out, i.e. the construction of the work outline, research methodology design, and the preparation of a summary presentation.

Programme content

1. Design of the Master's thesis outline.
2. Techniques for preparing scientific texts.
3. Key elements of a Master's thesis.
4. Monitoring the progress of the research on Master's thesis..
5. Procedural aspects of the defence.
6. Presentation on the results.

Course topics

1. Thesis planning - Preparation of the Master's thesis outline.
Requirements for the master's thesis; formulation of the thesis title, main objective, and research tasks. Development of the table of contents expanded with a brief description of the content of each element of the thesis.
2. Thesis editing.
Working with the template; managing the bibliography and methods of citing literature. Including graphical and tabular elements in the thesis. The most common editing errors.
3. Key components of the Master's thesis.
Practical preparation of the literature review, presentation of the applied methodology, and thesis abstract. The most common mistakes related to formulating the key elements of the thesis.
4. Workshops to support the progress of individual Master's Theses.
Assessment of the progress of individual theses; identification of problems related to the ongoing implementation of the master's thesis; ways to minimise the risk of delays in completing the thesis.
5. Thesis defence.
Requirements for thesis acceptance by the supervisor; analysis of the thesis according to the standards of the Unified Anti-Plagiarism System (JSA); key elements of the supervisor's review and opinion. Defense process; responding to remarks and comments contained in the review.
6. Final presentation.
Guidelines for preparing a presentation of achievements; structure and content of the presentation, behavioural elements, the most common mistakes in presenting accomplishments.
7. Summary.
Review and improvement of summary presentations of the implementation of master's theses.

Teaching methods

1. Presentations.
2. Formal documentation - quality procedures.
3. Workshop methods (preparation of materials in teams, discussion and analysis of errors and recommended solutions).

Bibliography

Basic

1. Sawicki P. Seminarium dyplomowe. Politechnika Poznańska, Wydział Inżynierii Lądowej i Transportu. http://piotr.sawicki.pracownik.put.poznan.pl/dydaktyka/_-prace-dyplomowe, Poznań, 2024.

Supplementary

1. WILiT PP, Procedura przygotowania prac dyplomowych i prowadzenia egzaminów dyplomowych. PJK_W05, <http://www.fcte.put.poznan.pl>
2. Wojciechowska R., Przewodnik metodyczny pisania pracy dyplomowej. Wyd. DIFIN, 2010
3. Boć J., Jak pisać pracę magisterską, wyd. 4 popr., Wyd. Kolonia Wrocław, 2003
4. Opoka E., Uwagi o pisaniu i redagowaniu prac dyplomowych na studiach technicznych, Wyd. Politechniki Śląskiej, Gliwice 2003
5. Urban S., Ładoński W., Jak napisać dobrą pracę magisterską, wyd. 4 uzup., Wyd. Akademia Ekonomiczna we Wrocławiu, Wrocław 2001.

Breakdown of average student's workload

	Hours	ECTS
Total workload	40	2,00
Classes requiring direct contact with the teacher	15	1,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	25	1,00