



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Diploma seminar

Course

Field of study

Year/Semester

Transport

2/3

Area of study (specialization)

Profile of study

Pipeline transport engineering

general academic

Level of study

Course offered in

Second-cycle studies

Polish

Form of study

Requirements

part-time

elective

Number of hours

Lecture

Laboratory classes

Other (e.g. online)

0

0

0

Tutorials

Projects/seminars

0

15

Number of credit points

18

Lecturers

Responsible for the course/lecturer:

Responsible for the course/lecturer:

dr inż. Łukasz Semkło

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email: lukasz.semklo@put.poznan.pl

tel.: 616652213

Instytut Energetyki Ciepłej

ul. Piotrowo 3, 60-965 Poznań

Prerequisites

KNOWLEDGE: The student has advanced and in-depth knowledge of transport engineering, theoretical foundations, tools and means used to solve simple 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SOCIAL COMPETENCES: The student understands that in computer science, knowledge and skills very quickly become outdated.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:

Diploma thesis - work progress presented during each class

Programme content

General part: types of qualification works, including diploma theses and rules for their implementation, requirements for diploma theses Formulation of the technical problem and thesis, study of literature, methodological part of the work, presentation of research results, development of observations and conclusions. Principles of work editing, editing support, development of graphic elements, preparation of work for printing and duplication.



Specialist part: reporting on the diploma theses carried out by authors and discussion on them.

Teaching methods

progress of diploma thesis presented by students during each class

Bibliography

Basic

1. Leszek W. Badania empiryczne. Wyd. ITE, Radom 1997.
2. Opoka E., Uwagi o pisaniu i redagowaniu prac dyplomowych na studiach technicznych, Wyd. Politechniki Śląskiej, Gliwice 2003
3. Dobre obyczaje w nauce. Zbiór zasad i wytycznych (wyd. 3), Wyd. PAN Warszawa 2001

Additional

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

Breakdown of average student's workload

	Hours	ECTS
Total workload	420	18,0
Classes requiring direct contact with the teacher	35	2,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹	385	16,0

¹ delete or add other activities as appropriate