



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Diploma seminar

Course

Field of study

Electromobility

Area of study (specialization)

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

3/6

Profile of study

general academic

Course offered in

polish

Requirements

compulsory

Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

15

Number of credit points

2

Lecturers

Responsible for the course/lecturer:

Responsible for the course/lecturer:

Prerequisites

Student which starting this subject should have basic knowledge, skills (including performing calculations and measurements of electrical and non-electrical quantities, writing simple computer programs, designing and building simple electrical systems in the field of electrical engineering) and competences (including verbal communication and teamwork) acquired in earlier years of study that enable the realization of an engineering diploma thesis.

Course objective

The aim of the course is to explain the essence of an engineering diploma thesis, to present the issues proposed in the diploma theses in the field of electrical engineering, to choose the topic of the diploma thesis by students, and also to learn the principles of its editing and conducting literature recognition in the field of thesis.

Course-related learning outcomes

Knowledge

1. has knowledge of the latest solutions used in the electrical engineering in the context of the subject of the thesis



2. has knowledge of the basic techniques, methods and tools used in the implementation of engineering tasks in the field of thesis being implemented
3. has knowledge of the general principles of ethics, copyright and related rights in relation to the thesis being carried out
4. has knowledge about the method of preparing an engineering project in the energy field

Skills

1. knows how to find useful literature sources (also in English) and make a critical assessment of their usefulness in the subject of the engineering work
2. knows how to correctly cite the relevant literature
3. knows how to prepare and, in a manner understandable to a wide audience, to present an oral presentation in the field of electrical engineering
4. knows how to use the acquired knowledge to creatively analyze and solve various engineering problems in the field of electrical engineering

Social competences

Is aware of the responsibility for their own work, is open to exchange of views, accepts critical comments on the subject of own research

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Knowledge and skills acquired as part of the seminar classes are verified by:

- observation and assessment of class activity, especially during discussions on analyzed issues
- assessment of knowledge and skills needed to implement an individual topic of engineering work based on a written paper (each student prepares a paper of 10 pages)
- assessment of the content and presentation form of the overall topic of engineering work
- observation and assessment of student work regularity

Programme content

Definition and essence of the diploma thesis, including team work and its connection with the provisions of study regulations of Poznan University of Technology. Discussion of the thematic scope of engineering theses for the field of energy. Rules for the implementation of works, individual consultations and the use of literature resources. Guidelines and recommendations for editing engineering works (document formatting, graphic elements, document correction). Principles of preparing the presentation of the thesis and preliminary discussing how to implement the selected topic (as part of the course, students prepare one paper on the issues raised in their thesis). Discussing the principles of citation as well as copyright and related law when writing theses.



Teaching methods

Multimedia presentation supplemented with comments and examples given on the board, analysis / discussion of various methods (including unconventional) solutions of exemplary problems and specific problems indicated in the topics of theses of individual students, taking into account various aspects of the problems solved: technical, economic, ecological, legal and social. 1. Detailed guidelines for editing the diploma thesis developed at the Promoter Institute

2. Specialist literature about work topics

Bibliography

Basic

1. Detailed guidelines for editing the diploma thesis developed at the Promoter Institute

2. Specialist literature about work topics

Additional

1. Exemplary engineering diploma theses

Breakdown of average student's workload

| | Hours | ECTS |
|---|-------|------|
| Total workload | 50 | 2,0 |
| Classes requiring direct contact with the teacher | 20 | 1,0 |
| Student's own work (literature studies, preparation of final paper, preparation of presentation on engineering thesis) ¹ | 30 | 1,0 |

¹ delete or add other activities as appropriate