COURSE DESCRIPTION CARD - SYLLABUS

Course name
Diploma seminar [S1Elmob1>SD2]

Course

Field of study
Electromobility

Year/Semester
4/7

Area of study (specialization)
–

Profile of study
general academic

Level of study
first-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

Lecturers

Prerequisites

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

Course objective

The aim of the course is to learn the principles of analysis and development of own research results, formulate conclusions, create presentations for the purposes of engineering thesis and its presentation, provide information on the diploma process (documents, dates, diploma exam, scope of exam issues) and prepare students for scientific research in the area of the completed field of study.

Course-related learning outcomes

Knowledge:
1. has detailed knowledge in the field of power engineering covering issues in the engineering thesis
2. has knowledge of development trends in power engineering in the context of the subject of engineering thesis
3. has knowledge of the preparation and defense of the engineering thesis

4. has basic knowledge about the methodology of scientific research in the area of the completed field of study
5. has knowledge of plagiarism and the legal consequences of committing it

Skills:
1. knows how to prepare a multimedia presentation on the subject of implemented engineering work
2. knows how to formulate and express content related to power engineering issues in a clear and precise manner
3. has the ability to synthesize applications on the basis of design and research works carried out as part of an engineering thesis
4. knows how to use different forms of bibliography and correctly cite them in compact publications

Social competences:
1. understands the need and knows the possibilities of continuous training and raising professional, personal and social competences

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 the content and form of multimedia presentation of the results of works obtained for the needs of implemented works, with particular emphasis on the ability to clearly and precisely formulate and express the transmitted content
- observation of progress in writing the engineering thesis through contact with promoters

Programme content

Characteristics of the development methods: introduction, design part of the thesis, analysis of the results obtained and summaries. Bibliography and methods of citing literature sources. Preparation for conducting scientific research, discussion of the current research at the institute related to the field of power engineering. Description of the diploma process: documents, procedures, dates, diploma exam - form, method of conducting, evaluation algorithm, scope of exam issues. Principle of functioning and application of the Uniform Anti-Plagiarism System (JSA), results of work analysis (general and detailed report), effects of plagiarism - ordinance of JM Rector regarding the obligation to check written diploma theses using JSA. Legal aspects of plagiarism. Receipt of the certificate and diploma.

Teaching methods

Multimedia presentation supplemented with comments and examples given on the board, analysis / discussion of various methods (including unconventional) solutions to examplary 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.

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	53	2,00
Classes requiring direct contact with the teacher	15	0,50
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	38	1,50