



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Preparation of the thesis work

Course

Field of study

Electrical power engineering

Area of study (specialization)

Smart grids

Level of study

Second-cycle studies

Form of study

part-time

Year/Semester

2/4

Profile of study

general academic

Course offered in

polish

Requirements

compulsory

Number of hours

Lecture

0

Laboratory classes

0

Other (e.g. online)

0

Tutorials

0

Projects/seminars

40

Number of credit points

10

Lecturers

Responsible for the course/lecturer:

dr hab. inż. Jarosław Gielniak, prof. PP

Wydział Inżynierii Środowiska i Energetyki

Instytut Elektroenergetyki

e-mail: jaroslaw.gielniak@put.poznan.pl

tel. 61 665 20 24

Responsible for the course/lecturer:

dr hab. inż. Krzysztof Walczak, prof. PP

Wydział Inżynierii Środowiska i Energetyki

Instytut Elektroenergetyki

e-mail: krzysztof.walczak@put.poznan.pl

tel. 61 665 2797

Prerequisites

The student should have basic knowledge, skills and competences acquired in the previous years of studies, enabling him to carry out a team MA thesis.

Course objective

The aim of the diploma process is to deepen theoretical knowledge related to the selected topic of work, acquire the ability to solve practical engineering problems, including the team implementation of the application that is the subject of the work.

The main goal is the student (students) to carry out independently (in a team) complex curriculum content in accordance with the detailed tasks specified in the subject card of the master's thesis.



Course-related learning outcomes

Knowledge

Knows specialized vocabulary in a foreign language, which allows for the analysis of technical and scientific documents relevant to the field of power engineering

Knowledge of the connection of the electric power engineering profession with various non-technical fields, such as: economy, law or ethics

Skills

Can pose hypotheses and test them in simple research systems

He can independently plan and implement his development as well as motivate and direct others

Social competences

Correctly identifies and resolves dilemmas related to broadly understood energy security; can think and act in a creative and entrepreneurial manner; understands the need for actions to make the society aware of the development of the power industry, but also to reduce the risks it carries

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

1. continuous assessment through systematic consultations checking the content correctness and the degree of advancement of the thesis
2. assessment of the increase in the ability to use the learned principles and methods
3. evaluation of the results of the implementation of the master's thesis

Programme content

The subject of the master's thesis is the implementation of the program content in accordance with the detailed tasks specified in the topic card of the master's thesis, defined by the thesis promoter or business entity cooperating with the University. The work is carried out individually or in groups (usually 2 people) under the supervision of the supervisor or supervisor and a supervisor appointed by the supervisor. The final result is the submission of the master's thesis to the Dean's Office. If required by the purpose of the work, it must have working software or a prototype as well as technical and operational documentation.

Teaching methods

Consultations on the subject of thesis with the supervisor, workshops / trainings, discussions within the team implementing the thesis, regarding the presented diploma theses

Bibliography

Basic

Scientific and technical literature: textbooks, monographs, articles, catalogs, websites, documentation, guidelines and standards provided by those managing theses.



Additional

Breakdown of average student's workload

	Hours	ECTS
Total workload	250	10,0
Classes requiring direct contact with the teacher	40	2,0
Student's own work (literature studies, diploma thesis preparation) ¹	210	8,0

¹ delete or add other activities as appropriate