COURSE DESCRIPTION CARD - SYLLABUS

Course name
Diploma seminar

Course

Field of study
Power Engineering

Year/Semester
4/8

Area of study (specialization)
Electrical Power Engineering

Profile of study
general academic

Level of study
First-cycle studies

Course offered in
Polish

Form of study
part-time

Requirements
compulsory

Number of hours

Lecture
0

Laboratory classes
0

Other (e.g. online)
0

Tutorials
0

Projects/seminars
10

Number of credit points

3

Lecturers

Responsible for the course/lecturer:
Dr hab. inż. Jarosław Gielniak
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Faculty of Environmental Engineering and Energy
Piotrowo 5, 60-965 Poznań

Responsible for the course/lecturer:

Prerequisites

He/she has fundamental knowledge collected during study on Power Engineering field. He/she can indicate and formulate tasks, problems in frame of electric engineering. He/she knows fundamental possibilities of the knowledge acquiring from literature sources. She/he is aware of the need to expand his knowledge and skills.

Course objective

Understanding the issues proposed in engineering theses. Choosing the topic of the diploma thesis and defining detailed tasks (preparing the title page). Getting to know the rules of editing the thesis and conducting research. Learning about selected issues regarding the collection of the necessary materials and rules for the preparation of engineering thesis.

Course-related learning outcomes

Knowledge

1. Knowledge of the bases of applying copyright and the protection of the intellectual property, students know how to use the supplies of patents information.
2. Student has knowledge in the field of methodology, measurements and conducted analyzes of a selected technical issue.
3. Knows the latest development trends in technology based on professional literature

Skills

1. Ability to prepare a short presentation on a given task concerned with power engineering.
2. Ability to compare the different project solutions in the area of basic power engineering problems from the point of view the selected application and economic criteria.
3. The student is able to work individually and in a team, knows how to estimate the time needed to complete the tasks provided for in the field of engineering work.

Social competences

1. Student is aware of the value of his work, and also shows willingness to comply with the principles of working in a team in the field of jointly carried out tasks.
2. Is aware of the social role of a technical university graduate, and especially understands the need to formulate and communicate to the public information and opinions on the achievements of technology in the field of electrical engineering

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

1. Continuous evaluation of seminar activities of the student's activity and increase of his knowledge and skills needed to implement the diploma thesis.
2. Evaluation based on the results obtained and the method of their systematic presentation.
3. Assessment of the effectiveness of applying knowledge to the needs of solving the tasks.

Programme content

1. Discussing the subject of proposed engineering theses, including research currently carried out at the Institute in the field of power networks and system protection
2.Discussion of selected issues in the field of prepared engineering thesis
3. Determining the tasks covered by the topic of work
4. Rules for making bibliography
5. Editing and formatting of the engineering thesis

Teaching methods

Lecture in the form of a multimedia presentation, ongoing discussion and evaluation of projects presented by students

Bibliography

Basic

1. Bibliography on the subject of the diploma thesis recommended by the supervisor.
2. Author's vademecum, recommendations for the preparation of publications prepared by IE and the Poznan University of Technology Publishing House.
3. Specialist literature (books, articles, conference materials, technical brochures).
4. Lexicons, encyclopedias, technical guides, dictionaries.

Additional

1. Bibliography found by the student in printed and electronic form.
2. Examples of very well prepared diploma thesis

Breakdown of average student's workload

	Hours	ECTS
Total workload	75	3,0
Classes requiring direct contact with the teacher	55	2,0
Student's own work (literature studies, consultations with supervisors of diploma theses, performing preliminary laboratory tests and analyzes, preparation of the presentation) [1]	20	1,0

[1] delete or add other activities as appropriate