COURSE DESCRIPTION CARD - SYLLABUS

Course name
Diploma seminar [S2ZE1E>SD3]

Course

Field of study
Green Energy

Year/Semester
2/3

Area of study (specialization)
–

Profile of study
general academic

Level of study
second-cycle

Course offered in
English

Form of study
full-time

Requirements
compulsory

Number of hours

Lecture
0

Laboratory classes
0

Other
0

Tutorials
0

Projects/seminars
15

Number of credit points

1,00

Coordinators

prof. dr hab. inż. Zbigniew Nadolny
zbigniew.nadolny@put.poznan.pl

Lecturers

Prerequisites

The student has well-established knowledge gained during the studies in the field of power engineering and environmental protection. Student is able to independently acquire knowledge and technical information in the field of issues related to the power engineering and environmental protection, also in a foreign language. Student understands the need for continuous training and knows the basic possibilities of acquiring knowledge from literature sources in the field of energy.

Course objective

Acquiring knowledge and skills related to conducting scientific research, presenting the obtained research results, analyzes and conclusions on the issue discussed in the diploma thesis. Getting to know the issues related to the collection of the necessary materials and rules for the preparation of the master's thesis.

Course-related learning outcomes

Knowledge:
Student knows how to use literature sources, knows the issues related to copyright
The student has a knowledge of the correct construction of scientific work, applied research methods and scientific analysis.

Skills:
The student is able to formulate and test scientific hypotheses. The student is able to search, compare, analyze and interpret information obtained from scientific sources and use technical documentation related to issues related to the power engineering and environmental protection, prepared both in Polish and in English. The student is able to plan, conduct, document a scientific experiment and present the obtained results during a scientific debate.

Social competences:
The student understands the contemporary problems of energy security and the resulting necessity to educate the society in the field of the latest power technologies.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Assessment of activity in the process of developing tasks related to the thesis being prepared. Assessment of the prepared presentations, the quality of discussions, the ability to argue their views on the subject of basic tasks and elements of the prepared thesis.

Programme content

Characteristics of the diploma thesis. Discussion of the proposed thematic areas of diploma theses. Discussion of the composition of the diploma thesis as well as editorial guidelines and recommendations (document formatting, graphic elements).

Course topics

Rules for preparing a general presentation regarding the topic of the work. Methods of searching for literature in modern databases and principles of its citation. Discussion of the elements of scientific research methodology and the principles of carrying out research conducted for the purposes of a diploma thesis (during the course, students present one paper constituting a concept for solving the problems of the diploma thesis). Participation in scientific research conducted at the supervisor's institute related to the field of study (using the PUT library resources - database of scientific journals. Basics of copyright and related rights.

Teaching methods

An interactive seminar with questions and discussion initiation. During the classes, information materials (in the form of multimedia presentation) prepared by the seminar leader and students are used. The discusion at the forum of the group aims to critically evaluate the research results obtained and to indicate the directions of further work.

Bibliography

Basic:
1. Vademecum autora, Wydawnictwo Politechniki Poznańskiej, http://www.ed.put.poznan.pl/files/Vademecum-dla-autorow.pdf
2. Urban S., Ładoński W. , Jak napisać dobrą pracę magisterską, Wrocław: Akademia Ekonomiczna, 2003.
3. Prawo autorskie. Ustawa z 4 lutego 1994 r. ze zmianami z 2015 r.
4. Rozpondek M. , Wyciślik A. , Seminarium dyplomowe: praca dyplomowa magisterska i inżynierska: pierwsza praca – know how, Wydawnictwo Politechniki Śląskiej, 2007.
5. Zenderowski R., Pawlik K. , Dyplom z Internetu. Jak korzystać z Internetu pisząc prace dyplomowe, Warszawa CeDeWu, 2015.

Additional:
1. Przykładowe, wzorcowo wykonane prace dyplomowe nagradzane na różnych konkursach.
2. Regulamin studiów stacjonarnych i niestacjonarnych pierwszego i drugiego stopnia uchwalony przez Senat Akademicki Politechniki Poznańskiej, uchwała nr 154/2016-2020 z dnia 24 kwietnia 2019, https://www.put.poznan.pl/sites/default/files/attachments/uchwala_nr_154_-_2019_-_zalacznik_regulamin_studiow.pdf - § 31,§ 32,§ 33.
3. Cempel C., Nowoczesne zagadnienia metodologii i filozofii badań : wybrane zagadnienia dla studiów

magisterskich, podyplomowych i doktoranckich, Poznań ; Radom : Instytut Technologii Eksploatacji, 2005.

Breakdown of average student's workload

	Hours	ECTS
Total workload	25	1,00
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)	10	0,50