



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Diploma seminar [S2EJ1>SD]

Course

Field of study

Nuclear Power Engineering

Year/Semester

2/3

Area of study (specialization)

–

Profile of study

general academic

Level of study

second-cycle

Course offered in

Polish

Form of study

full-time

Requirements

compulsory

Number of hours

Lecture

0

Laboratory classes

0

Other

0

Tutorials

0

Projects/seminars

30

Number of credit points

2,00

Coordinators

prof. dr hab. inż. Janusz Wojtkowiak
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Lecturers

Prerequisites

The student has well-established knowledge gained during the studies in the field of nuclear power engineering. Student is able to independently acquire knowledge and technical information in the field of issues related to the nuclear power engineering, 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 nuclear power engineering.

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 nuclear power engineering, 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

Basic issues related to conducting scientific research. Presentation of research results and analyzes of a selected issue. Formulating logical conclusions resulting from the conducted research and analyzes. Preparation of a list of specialist literature used in the thesis. Final editing of the thesis.

Course topics

The seminar program covers the following topics:

1. the role and importance of reviewing and analyzing the state of knowledge, types of databases,
2. ways of citing sources (information) and respecting copyrights, anti-plagiarism programs,
3. types of information sources (monographs, academic textbooks, review articles, special issues of journals, post-conference publications, internet, artificial intelligence) and assessment of their credibility,
4. main chapters and structure of the diploma thesis,
5. types of diploma theses (experimental, theoretical, review),
6. assessed elements of the diploma thesis: originality, author's independence, substantive correctness, editorial correctness, accuracy of the formulated conclusions, completeness of the list of literature, publication potential,
7. oral presentation of research results,
8. multimedia presentation of research results,
9. participation in scientific discussions - responses to comments, questions, suggestions, responses to reviewers' comments.

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 discussion 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	55	2,00
Classes requiring direct contact with the teacher	30	1,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	25	1,00