SYLLABUS

Name: Diploma seminar
Name in Polish: Seminarium dyplomowe
Name in English:

Information on course:

Course offered by department:	Faculty of Organisation and Management
Course for department:	Silesian University of Technology
Study level and form:	Master's degree/Bechelor's degree, Full-time
Term:	Winter semester 2023/2024, spring 2023/2024, winter 2024/2025
Coordinator of course edition:	Dr hab. inż. Patrycja Hąbek, prof. PŚ

Default type of course examination report:

Language:

English

Course homepage:

https://platforma.polsl.pl/roz/

ECTS

I semester 3ECTS, II semester 6ECTS; III semester 11ECTS

Short description:

The course aims to provide students with structured knowledge and acquire skills and competencies related to the theoretical and practical aspects of preparing a master's thesis. In particular, this will concern a methodical approach to solving engineering problems using methods and tools of production engineering and writing a scientific thesis. Important aspects of the classes will also include issues related to the ethics of writing scientific papers and using literature sources.

Description:

Seminar 75 h (15h -sem. I; 30h -sem II i 30h – sem III)

Semester I

1. Presentation of the principles of conducting a diploma seminar in the field of Management and Production Engineering and the conditions for passing it.
2. Presentation of master's theses topics/areas and potential supervisors.
3. Presentation of sample solutions to selected engineering problems.
4. Students' declaration regarding the choice of the topic of the master's thesis and the supervisor.
5. Discussion of the outline of the work and the structure of the work.
6. Discussion of research problems and formulating the objectives of the master's thesis.
7. Discussion of research scopes and literature sources used in the work.
8. Presentation of the prepared interim work on solving a selected engineering problem.

Semester II

1. Discussion of the method of preparing the literature part of the master's thesis.
2. Methods of searching for literature on the subject. Preparation of a preliminary list of literature used in the work.
3. Discussing the structure of the theoretical chapter of the work - transitional work.
4. Discussion of the formal editorial requirements of the work
5. Discussion of the types of footnotes and references. Quoting and paraphrasing.
6. Ethical principles of writing a diploma thesis.
7. Presentation of transitional master's thesis.

Semester III

1. Discussion of research methods and techniques used in master's theses.

2. Methods of analysis and interpretation of research results.

3. Formulating conclusions and recommendations from the conducted research.

4. Presentation of the structure and method of preparing the research part of the master's thesis, including the method of solving the research problem.

5. Preparation for the diploma examination, discussion of issues applicable to the diploma examination.

6. Presentation of master's thesis.

Bibliography:

1. Yvonne N. Bui: How to Write a Master's Thesis, SAGE Publications, 2014
2. Simon Thabo Mahlaole: Writing a Master's Thesis: A Basic Guide, Amazon Digital Services LLC – Kdp, 2023
3. Mark Stephan Felix, Ian Smith: A Practical Guide to Dissertation and Thesis Writing, Cambridge Scholars Publisher, 2019

Learning outcomes:

Knowledge. Knows and understands:
K2A_W10 Selected issues in the field of advanced detailed knowledge typical of the field of study of management and production engineering.

Skills. Is able to:
K2A_U02 Perform tasks as well as formulate and solve problems using new knowledge, including the knowledge from other fields.
K2A_U03 When identifying and formulating specifications for engineering tasks and solving them:
-use analytical, simulation and experimental methods,
-see their systemic and non-technical aspects, including ethical issues,
-make a preliminary economic assessment of proposed solutions and undertaken engineering activities.
K2A_U07 Formulate and test hypotheses related to simple research problems concerning the field of management and production engineering.
K2A_U15 Independently plan and realize his/her lifelong learning and guide others in this regard.

Competencies. Is ready for:
K2A_K01 Critical evaluation of the acquired knowledge and received content.

The implementation of the learning outcomes assumed for the Diploma Seminar takes place with the following assumptions:
Semester I: K2A_W10, K2A_U15, K2A_K01.
Semester II: K2A_W10, K2A_U02, K2A_U15, K2A_K01.
Semester III: K2A_W10, K2A_U02, K2A_U03, K2A_U07, K2A_U15, K2A_K01.

Assessment methods and assessment criteria:

Seminar:
Passing the seminar in the first semester is based on a positive assessment of the presentation prepared by each student covering the solution of a selected engineering problem.
Passing the seminar in the second semester is based on a positive assessment of the intermediate work prepared and presented by each student, which includes an introduction to the studied engineering problem, which will form the basis of the master's thesis.
Passing the seminar in the third semester is based on a positive assessment of the master's thesis prepared and presented by each student.

Practical placement: