



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Diploma seminar

Course

Field of study

Mechanical Engineering

Area of study (specialization)

Production Informatics and Robotics

Level of study

Second-cycle studies

Form of study

full-time

Year/Semester

2/3

Profile of study

general academic

Course offered in

polish

Requirements

compulsory

Number of hours

Lecture

-

Tutorials

-

Laboratory classes

-

Projects/seminars

30

Other (e.g. online)

Number of credit points

3

Lecturers

Responsible for the course/lecturer:

Academic Professor. Olaf Cizak

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Faculty of Mechanical Engineering

Piotrowo 3, 60-965 Poznan, room 638

Responsible for the course/lecturer:

Prerequisites

A student starting this course should have basic basic knowledge of the programs and subjects provided



for students of the MiBM specialization field of informatics and robotization of manufacturing at the second degree of studies. He should also have the ability to obtain information (library, electronic databases of scientific publications and patents, the Internet and others), process and analyze sources of knowledge leading to logical conclusions. Understand the need to learn, acquire new knowledge, organize the information obtained, verbalize own conclusions (self-presentation). Have the ability to use programs for editing text, graphic and presentation. Understanding the need to learn, acquiring new knowledge, is able to define priorities to achieve the adopted goal, work in a group, he is aware of the role of Master of Science in the environment, as well as general social impacts of engineering.

Course objective

Preparation of the presentation of the thesis for the final examination; Presentation and discussion in the group of progress on the current implementation of the topics of the master's thesis.

Course-related learning outcomes

Knowledge

Student knows about:

- rules related to the editing and formatting of the thesis text (structure, editorial requirements, sources of knowledge, bibliographic rules used in the preparation of the literature review, and others)
- the course and content-related scope of the diploma examination.

Skills

Student should be able to:

- analyze the literature
- present the scope of the topic, the main assumptions and purpose of the work and present its important fragments
- verbalize the acquired knowledge and present it in various ways (multimedia presentation, lecture, speech, discussion)
- formulate conclusions from the work performed
- has the ability to self-education.

Social competences

Students should be able to collaborate in a group, express and justify their assessment, follow the rules of ethics. Understands the need for lifelong learning. Is aware of the importance and understanding of non-technical aspects and effects of engineering and technical activities, including its impact on the environment. They are aware of the social role of a technical university graduate.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Assessment of individual presentations and the level of advancement of master's theses; assessment of activity in the discussion on the works referred by other students.



Programme content

Seminar:

- characteristics of master's theses (design, technology, production organization, research, review, theoretical)
- layout and structure of the thesis, editorial requirements (table of contents, introduction, purpose, scope, development, summary, conclusions, literature)
- formulating current problems related to the implementation of work and solving them in cooperation with the promoter
- presentation of the progress of the work (e.g. with the use of Power Point), discussions after their delivery, indicating the strengths and weaknesses of the work and directions for improvement
- discussion of the latest achievements and directions of technology development in selected topics
- preparation for the defense of the master's thesis.

Teaching methods

Seminar: multimedia presentation, problem discussion, brainstorming

Bibliography

Basic

- Vademecum autora, opracowanie własne
- Wojciechowska R., Przewodnik metodyczny pisania pracy dyplomowej, Wyd. DIFIN, Warszawa 2010
- Opoka E., Uwagi o pisaniu i redagowaniu prac dyplomowych na studiach technicznych, Wyd. Politechniki Śląskiej, Gliwice 2001

Additional

- Ładoński W., Urban St., Poradnik dla autorów prac dyplomowych, Wyd. PWSZ w Legnicy, 2015
- Gambarelli G., Łucki Z., Praca dyplomowa i doktorska, CeDeWu, 2015
- Detyna B., Matuszek J., Szołtysek J., Praca dyplomowa inżynierska, magisterska, Wyd. PWSZ w Wałbrzychu 2018
- Zenderowski R., Praca Magisterska Licencjat. Przewodnik po metodologii pisania i obrony pracy dyplomowej, CeDeWu, 2020



Breakdown of average student's workload

	Hours	ECTS
Total workload	100	3,0
Classes requiring direct contact with the teacher	30	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹	70	2,0

¹ delete or add other activities as appropriate