



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

1/2

Profile of study

general academic

Course offered in

polish

Requirements

compulsory

Number of hours

Lecture

-

Tutorials

-

Laboratory classes

-

Projects/seminars

15

Other (e.g. online)

Number of credit points

8

Lecturers

Responsible for the course/lecturer:

Academic Professor Olaf Cizak

mail: olaf.cizak@put.poznan.pl

Faculty of Mechanical Engineering

Piotrowo 3, 60-965 Poznan, room 638

Responsible for the course/lecturer:

Prerequisites

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



for students of the mechanical engineering major in 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). Be able to use software for editing text and graphic documents.

Course objective

Developing the topics of master's theses, specifying the goals and scope of the work; Overview of examination issues.

Course-related learning outcomes

Knowledge

Student knows:

- rules related to the editing of the thesis (structure, editorial requirements, sources of knowledge, bibliographic rules used in the preparation of the literature review and others)
- how to define the topic and purpose of the thesis and formulate the scope of the topic (issues developed later in the thesis)
- the substantive scope of the diploma examination.

Skills

Student should be able to:

- analyze the literature on the subject
- present the scope of the topic, 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.

Social competences

Students should be able to cooperate in a group, express their assessment and justify it, follow ethical principles.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Seminar: Prerequisite: approval of the topic of the thesis (developed thesis card) by the seminar leader

Final assessment including components: preparation of seminar papers on examination issues, discussion level, ability to answer questions, activity, progress and scope of the thesis prepared.

Programme content



Seminar:

- characteristics of master's theses (design, technology, production organization, research, review, theoretical)
- the structure of the thesis and basic editorial requirements
- characterizing the substantive area, formulating the aim of the work and its scope
- selection of the work promoter, setting the topic of work in close contact with the promoter
- presentation of the outline of the selected topic of the work and its significant fragments
- selection and presentation of the work methodology: inference at the stage of topic analysis, selection of methods and means to be performed by experience, modeling, statistical analysis of results, measures of variability, statistical verification of hypotheses, final conclusions with innovative, practical or theoretical emphasis
- formal rules for developing a literature review and student's own research
- issues common to groups of students based on examples? preparation of a paper in groups, discussion.

Teaching methods

Seminar: multimedia presentation, problem discussion.

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., Szofłysek J., Praca dyplomowa inżynierska, magisterska, Wyd. PWSZ w Wałbrzychu 2018
- Zenderowski R., Praca Mgisterska Licencjat. Przewodnik po metodologii pisania i obrony pracy dyplomowej, CeDeWu, 2020



Breakdown of average student's workload

	Hours	ECTS
Total workload	225	8,0
Classes requiring direct contact with the teacher	15	0,5
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹	210	7,5

¹ delete or add other activities as appropriate