



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Diploma seminar leading to a engineer's degree

Course

Field of study

Mechanical engineering

Area of study (specialization)

Computerisation and Robotics of Production

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

4/7

Profile of study

general academic

Course offered in

polish

Requirements

compulsory

Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

30

Number of credit points

3

Lecturers

Responsible for the course/lecturer:

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Responsible for the course/lecturer:

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Prerequisites

Knowledge of basic for programs and subjects provided for students of mechanical engineering in the first degree. Skills in basic for programs and subjects provided for students of mechanical engineering in the first degree. Understanding the need for learning, acquiring new knowledge, ordering information obtained, verifying own conclusions (self presentation).

Course objective

Preparation of thesis topics, specification of objectives and scope of work.

Course-related learning outcomes

Knowledge

1. He/she has detailed knowledge of manufacturing techniques, computer aided design, automation and robotics [K_W09, K_W13].



2. Student knows the rules related to editorial work (structure, editorial requirements, sources of knowledge acquisition, bibliographic rules used in literature review) [K_W18].

Skills

1. He/she can obtain information from literature and other properly selected sources, interpret them, draw conclusions, as well as formulate and justify opinions [K_U01].
2. Student can solve technical problems based on theoretical knowledge, conduct experiments and measurements of mechanical quantities, interpret the results [K_U10, K_U08].
3. He/she can describe the implementation of an engineering task and prepare a documentation of the results of this task [K_U03].
4. Student is able to prepare and carry out a short presentation on the results of engineering tasks in the field of mechanical engineering [K_U04].

Social competences

1. He/She can cooperate in a group [K_K03].
2. Student is aware of the importance and understanding of the non-technical aspects and effects of engineering activities, follows the principles of ethics [K_K02].
3. He/she understands the need for lifelong learning [K_K01].

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Evaluation of papers presented during the seminar and participation in discussions about the presentation of other students of the seminar group.

Programme content

1. Characteristics of the diploma thesis, the structure of thesis, editorial requirements.
2. Formal rules of the literature review and student's own research.
3. Presentation of the objectives, scope and schedule of work, methodology of conducting design and experimental work.
4. Constructing and presentation of the concept of completion of the thesis.
5. Presentation of the results and conclusions of the work.

Teaching methods

A multimedia presentation by both the lecturer and students. A discussion of the lecturer and listeners.

Bibliography



Basic

1. Selected individually - according to the subjects of diploma thesis.

Additional

1. R. Wojciechowska: Przewodnik metodyczny pisania pracy dyplomowej, Wyd. DIFIN, Warszawa 2010.

Breakdown of average student's workload

	Hours	ECTS
Total workload	80	3,0
Classes requiring direct contact with the teacher	35	1,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) ¹	45	2,0

¹ delete or add other activities as appropriate