



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Diploma seminar

### Course

Field of study

Mechanical Engineering

Area of study (specialization)

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

3/6

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:

prof. Marek Szostak

Responsible for the course/lecturer:

### Prerequisites

Knowledge of the basics of machine building, material processing technology.

### Course objective

Preparation for developing and delivering a paper, selecting the topic of the thesis and specifying the purpose and scope of the thesis.

### Course-related learning outcomes

Knowledge

1. Has detailed knowledge of manufacturing techniques used in material processing technology.

2. Has detailed knowledge of machines and technological devices used in material processing technology.

3. Has knowledge of product quality and production management.

4. Knows the general principles of creating and developing forms of individual entrepreneurship, using knowledge in the field of science and scientific disciplines relevant to the studied field of study.



### Skills

1. Can obtain information from literature, databases and other properly selected sources (also in English) in the field of mechanics and machine construction as well as other engineering and technical issues consistent with the field of study; is able to integrate the obtained information, interpret it, as well as draw conclusions and formulate and justify opinions.
2. Is able to develop documentation on the implementation of an engineering task in the field of mechanics and machine construction (construction, technology, organization) and prepare a text containing an overview of the results of this task.
3. Can prepare and present a short presentation on the results of an engineering task in the field of mechanics and machine construction (construction, technology, organization).
4. Has the ability to self-educate, incl. in order to improve professional competences.

### Social competences

1. Can properly define priorities for the implementation of tasks set by himself or others.
2. Correctly identifies and resolves dilemmas related to the profession.
3. Is aware of the social role of a technical university graduate, and especially understands the need to formulate and transfer information and opinions to the society on the achievements of technology and other aspects of engineering activities; makes efforts to provide such information and opinions in a commonly understandable manner.

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Assessment of seminar papers. Presentation and discussion of the diploma thesis topic card.

### Programme content

Types of diploma theses (design, technology, research, organizational, diagnostic etc.). The structure of the thesis. Characterization of the substantive area, formulation of the purpose of the work and its scope. Selection and presentation of work methodology. Presentation of the selected issue according to the established chronological and substantive scheme. Choosing a job promoter. Setting the topic of work in close contact with the supervisor. Presentation of the outline of a selected issue related to the topic of work.

### Teaching methods

Seminar, consultations on implemented projects, workshops - discussions on the presented diploma projects.

### Bibliography

Basic

1. Selected individually.



Additional

1. Selected individually.

### Breakdown of average student's workload

	Hours	ECTS
Total workload	75	3,0
Classes requiring direct contact with the teacher	35	1,5
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) <sup>1</sup>	40	1,5

<sup>1</sup> delete or add other activities as appropriate