



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Preparation of a diploma thesis [S2MiBM2-IWP>PPD]

### Course

Field of study

Mechanical Engineering

Year/Semester

2/3

Area of study (specialization)

Virtual Engineering Design

Profile of study

general academic

Level of study

second-cycle

Course offered in

Polish

Form of study

full-time

Requirements

compulsory

### Number of hours

Lecture

0

Laboratory classes

0

Other

0

Tutorials

0

Projects/seminars

60

### Number of credit points

11,00

### Coordinators

dr inż. Jakub Grabski  
jakub.grabski@put.poznan.pl

### Lecturers

### Prerequisites

The student has basic knowledge of the programs and subjects provided for students of Mechanical Engineering at the second-cycles studies. In particular, he is aware of the role and importance of technologies specific to the field of mechanical engineering.

### Course objective

Improving knowledge and skills in planning and conducting scientific research as well as the ability to present the results of this work.

### Course-related learning outcomes

Knowledge:

1. Student knows the rules related to the editing of a diploma thesis (structure, editorial requirements, sources of acquiring knowledge, bibliographic principles used in preparing a literature review).
2. The student is able to determine the topic and purpose of the diploma thesis and formulate the scope of the topic (issues subsequently developed in the diploma thesis).

Skills:

The student is able to analyse the literature on the subject. The student is able to present the scope of the topic, the main assumptions and purpose of the work and report its important fragments. The student is able to formulate conclusions from the work performed. The student is able to prepare a well-documented technical study in Polish and English. The student is able to present the acquired knowledge (multimedia presentation, report, speech, discussion).

Social competences:

The student understands the need for lifelong learning and is able to inspire the learning process of other people. The student is aware of the social role of a technical university graduate, is able to express his or her assessment and justify it with substantive arguments. The student is able to act in an entrepreneurial manner. The student is aware of the need to act in accordance with the principles of student and researcher ethics.

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Completing the course based on:

- evaluation of the presented diploma thesis,
- regularity of its execution (timely manner),
- ability to independently solve technical problems.

### Programme content

Consistent with the given topic of the diploma thesis.

### Course topics

none

### Teaching methods

Discussion between the supervisor and the graduate on currently emerging problems, ongoing explanations or providing sources in the literature.

### Bibliography

Basic:

1. Wojciechowska R., Przewodnik metodyczny pisania pracy dyplomowej Wyd. DIFIN Warszawa 2010
2. Opoka E., Uwagi o pisaniu i redagowaniu prac dyplomowych na studiach technicznych Wyd. Politechniki Śląskiej Gliwice 2001
3. Diakun J., Szablon pracy dyplomowej, <http://pm.put.poznan.pl/strefa-studenta/instrukcje-do-zajec-laboratoryjnych/>
4. Scientific and technical literature necessary to prepare a diploma thesis.

Additional:

1. Dobre obyczaje w nauce. Zbiór zasad i wytycznych (wyd. 3), Wyd. PAN Warszawa, 2001.

### Breakdown of average student's workload

	Hours	ECTS
Total workload	275	11,00
Classes requiring direct contact with the teacher	60	2,50
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	215	8,50