



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Preparation of the diploma thesis

### Course

Field of study

Materials Engineering

Area of study (specialization)

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

### Number of credit points

9

### Lecturers

Responsible for the course/lecturer:

Diploma thesis supervisors

Responsible for the course/lecturer:

dr hab. inż. Marek Nowak, prof. nadzw. PP

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Wydział Inżynierii Materiałowej i Fizyki

Technicznej

ul. Piotrowo 3, 60-965 Poznań

### Prerequisites

The student has the knowledge and skills necessary to complete the diploma dissertation acquired during classes in semesters 1-7

### Course objective

Expanding knowledge and skills on solving engineering problems in materials engineering and the ability to present the results of these works.

### Course-related learning outcomes

Knowledge



1. The student has basic knowledge of materials engineering problems - theoretical foundations, tools and means used to solve engineering problems.

#### Skills

1. The student can obtain information from various sources, also in English, and integrate, interpret and critically assess obtained information, draw conclusions as well as formulate and justify opinions,
2. The student can use analytical, simulation and experimental methods to formulate and solve engineering tasks and simple research problems in materials engineering.

#### Social competences

1. Student understands the need of the learning by the whole life; can inspire and organize the learning of others [K\_K01].
2. Student is able to determine the priorities for implementation of the specified by yourself or other tasks [K\_K04].
3. The student is aware of social role played by a graduate of technical university and understands the necessity to formulate and provide to the public, especially by means of mass media, information and opinions concerning technological advancements and other aspects of engineering activities; makes an effort to convey information and opinions in such a way that can be commonly understood

#### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Completion of the course based on:

- assessment of the diploma thesis presented,
- regularity of its implementation,
- ability to independently technical problem solving skills.

#### Programme content

Compatible with the topic of the diploma thesis.

#### Teaching methods

Discussion with the student about problems occurring during diploma thesis preparation, solving research problems or providing sources in the literature to solve problems.

#### Bibliography

##### Basic

1. Scientific and technical literature necessary to prepare the thesis
2. Affeltowicz J., Ogólne podstawy pisania technicznych prac dyplomowych : pomocnicze materiały dydaktyczne, Wyd. Politechnika Gdańska, Gdańsk, 1980.



2. Żółtowski B., Seminarium dyplomowe: zasady pisania prac dyplomowych, Wyd. Akademia Techniczno-Rolnicza w Bydgoszczy, Bydgoszcz, 1997.

4. Opoka E., Uwagi o pisaniu i redagowaniu prac dyplomowych na studiach technicznych, Wyd. Politechnika Śląska Gliwice, 1996.

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	120	9,0
Classes requiring direct contact with the teacher	60	0,0
Student's own work (literature studies, preparation for laboratory classes/tutorials, preparation for tests/exam, project preparation) <sup>1</sup>	60	9,0

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