



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Preparation of the diploma thesis

### Course

Field of study

Product Lifecycle Engineerings

Area of study (specialization)

Level of study

Second-cycle studies

Form of study

full-time

Year/Semester

2/3

Profile of study

general academic

Course offered in

English

Requirements

elective

### Number of hours

Lecture

Laboratory classes

Other (e.g. online)

Tutorials

Projects/seminars

### Number of credit points

10

### Lecturers

Responsible for the course/lecturer:

PhD. Eng. Krzysztof Grzeskowiak

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tel. + 48 61 6652403

Faculty of Mechanical Engineering

3 Piotrowo street, 60-965 Poznan

Responsible for the course/lecturer:

Diploma thesis supervisors

### Prerequisites

KNOWLEDGE: The student has advanced knowledge of the product life cycle, theoretical foundations, tools and resources used to solve simple engineering problems.

SKILLS: The student is able to plan and carry out experiments, including measurements and simulations, interpret the obtained results and draw conclusions.

SOCIAL COMPETENCES: The student is aware of the need to develop their knowledge

### Course objective

Expanding knowledge and skills on planning and conducting research and the ability to present the results of these works.



### Course-related learning outcomes

#### Knowledge

The student has the knowledge that allows to define product requirements based on the needs and expectations of customers, while maintaining applicable standards.

The student has the knowledge to describe, define, develop, test, analyze and approve products.

The student has the knowledge of how to use, operate, support, maintain products supplied to customers, and how to withdraw and recycle products after use.

#### Skills

The student has the ability to plan resources, processes and production schedules.

The student has the ability to prepare the information required for repair, product maintenance, recycling options.

The student has the ability to plan his own development and motivate others to learn throughout their lives.

#### Social competences

The student is open to new ideas and concepts, introducing changes and striving for self-improvement

The student is aware of the consequences of the decisions made and responsibility for the decisions made.

The student is aware of the effects of engineering activities in both the technical and non-technical.

### 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,
- 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

Scientific and technical literature necessary to prepare the thesis

Additional

### Breakdown of average student's workload

	Hours	ECTS
Total workload	75	10,0
Classes requiring direct contact with the teacher (consultations, research)	125	5,0
Student's own work (literature studies, preparation for laboratory classes, preparation for tests) <sup>1</sup>	125	5,0

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