



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Diploma laboratory

### Course

Field of study

Chemical and Process Engineering

Area of study (specialization)

Bioprocesses and Biomaterials Engineering

Level of study

Second-cycle studies

Form of study

full-time

Year/Semester

2/3

Profile of study

general academic

Course offered in

Polish

Requirements

compulsory

### Number of hours

Lecture

Laboratory classes

Other (e.g. online)

180

Tutorials

Projects/seminars

### Number of credit points

18

### Lecturers

Responsible for the course/lecturer:

dr hab. inż. Katarzyna Materna, prof. PP

Responsible for the course/lecturer:

thesis supervisor

### Prerequisites

The student has basic knowledge of the second degree of studies in the field of Chemical and Process Engineering.

The student has the basic ability to use professional literature.

The student has the basic ability to write specialized texts in accordance with the field of study.



The student understands the need for training and improving his/her professional and personal competences.

### Course objective

Carrying out research, preparation and submission of the thesis

### Course-related learning outcomes

Knowledge

Knowledge consistent with the topic of the thesis.

Skills

1. The ability to choose literature for the master's thesis [K\_U01, K\_U03]
2. Ability to plan, perform and interpret the results of experiments / other work related to the master's thesis. [K\_U07, K\_U08, K\_U09, K\_U10, K\_U18, K\_U19]
3. Ability to write the master's thesis. [K\_U06]

Social competences

1. The student understands the need for self-education and raising their professional competences. - [K\_K01]
2. The student is aware of compliance with the principles of ethics in the field of writing the thesis. [K\_K05]

### Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Verification of the work done by the thesis supervisor and verification of work with the anti-plagiarism system.

### Programme content

1. Thesis layout.
2. Ways to search and cite literature.
3. Performance of research / design / review work.

### Teaching methods

Own work plus consultation with the thesis supervisor.

### Bibliography

Basic

Indicated by the thesis supervisor

Additional

Indicated by the thesis supervisor



### Breakdown of average student's workload

	Hours	ECTS
Total workload	450	18,0
Classes requiring direct contact with the teacher	180	7,0
Student's own work (literature studies, preparation of the experimental part of the diploma thesis, preparation for the diploma examination) <sup>1</sup>	270	11,0

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