



## COURSE DESCRIPTION CARD - SYLLABUS

Course name

Diploma laboratory [S2IChIP1-IBiB>PD]

### Course

Field of study

Chemical and Process Engineering

Year/Semester

2/3

Area of study (specialization)

Bioprocesses and Biomaterials Engineering

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

180

Other

0

Tutorials

0

Projects/seminars

0

### Number of credit points

18,00

### Coordinators

dr hab. inż. Katarzyna Materna prof. PP  
katarzyna.materna@put.poznan.pl

### Lecturers

### 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:

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.

### Course topics

none

### 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   | 18,00 |
| Classes requiring direct contact with the teacher   | 180   | 7,00  |
| Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation) | 270   | 11,00 |