COURSE DESCRIPTION CARD - SYLLABUS

Course name
Diploma Training (4 weeks) [S2IChiP1>PD]

Course

Field of study
Chemical and Process Engineering

Year/Semester
1/1

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
0

Other
160

Tutorials
0

Projects/seminars
0

Number of credit points

5,00

Coordinators

dr hab. Justyna Werner
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Lecturers

Prerequisites

The student has ordered, theoretically founded knowledge of key issues in the field of chemical and process engineering. Is able to obtain information from the indicated sources, correctly interprets them and draws conclusions.

Course objective

Familiarization with chemical and process engineering solutions used in various workplaces. Preparation for work in the chemical and related industries, design offices, and scientific and research institutions.

Course-related learning outcomes

Knowledge:
1. has extended and deepened knowledge in the field of chemistry and other related areas of science, allowing for the formulation and solving of complex tasks related to chemical engineering k_w03
2. has knowledge in the field of complex chemical processes, including the appropriate selection of materials, raw materials, apparatus and devices for the implementation of chemical processes and the characterization of the obtained products k_w04
3. knows modern methods of examining the structure and properties of materials, necessary for the

characterization of raw materials and products of the chemical and related industries; knows the rules of organization of the market of chemical products (reach) and other products of processing industries k_w08

Skills:
1. can use professional software, using it to design chemical processes and process installations k_u07
2. has the ability to adapt knowledge in the field of chemistry and related fields to solve technological problems and plan new industrial processes, not only chemical k_u11
3. has the ability to assess the technological suitability of raw materials and the selection of the technological process in relation to the quality requirements of the product k_u14

Social competences:
1. can properly define the priorities for the implementation of the assigned task k_k04
2. can think and act in a creative and enterprising way k_k06
3. is aware of the social role of a technical university graduate, and especially understands the need to formulate and transmit to the society, in particular through the mass media, information and opinions on the achievements of technology and other aspects of engineering activities; makes efforts to provide such information in a commonly understandable manner, justifying different points of view k_k07

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Learning outcomes presented above are verified as follows:
The credit on the basis of the certificate of internship, report on the internship and completed survey.

Programme content

Issues related to chemical and process engineering solutions used in various workplaces.

Course topics

The workplace or design office as a place of future professional activity.
Understanding the issues of chemical and process engineering used in the plant, design office.
Detailed familiarization with unit processes and operations selected by the plant.
Solving tasks in a position indicated by the workplace or design office.
Activities of the plant and design office in the field of applying solutions in chemical and process engineering aspects.
Acquiring skills in the practical basics of designing technological and engineering processes.

Teaching methods

Practical classes in the workplace

Bibliography

Basic
Information materials provided by the company
Additional
Documents, instructions in force in the workplace - the place of the internship

Breakdown of average student's workload

	Hours	ECTS
Total workload	120	5,00
Classes requiring direct contact with the teacher	120	5,00
Student's own work (literature studies, preparation for laboratory classes/ tutorials, preparation for tests/exam, project preparation)	0	0,00