## POZNAN UNIVERSITY OF TECHNOLOGY



#### EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS)

pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

### **COURSE DESCRIPTION CARD - SYLLABUS**

Course name

Przedmiot obieralny - Praktyczne aspekty procesów produkcyjnych (Elective Subject - Practical aspects of production processes)

Course

Field of study Year/Semester

Technologia chemiczna (Chemical Technology) 1/2

Area of study (specialization)

Profile of study

Elektrochemia techniczna (Technical Electrochemistry) general academic

Level of study Course offered in

Second-cycle studies Polish

Form of study Requirements

full-time elective

**Number of hours** 

Lecture Laboratory classes Other (e.g. online)

15 0

Tutorials Projects/seminars

0 0

**Number of credit points** 

1

#### **Lecturers**

Responsible for the course/lecturer: Responsible for the course/lecturer:

dr hab. inż. Magdalena Regel-Rosocka dr inż. Magdalena Emmons-Burzyńska

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Wydział Technologii Chemicznej, Wydział Technologii Chemicznej,

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tel. 61 665 37 71 tel. 61 665 33 08

### **Prerequisites**

Basic, ordered, theoretically founded, systematic knowledge in the field of chemical technology, also covering key issues regarding natural and synthetic raw materials, products and processes used in chemical technology, as well as methods for assessing product quality.

The ability to assess the technological suitability of raw materials and the selection of the technological process in relation to the product quality requirements, the ability to obtain information from literature, databases and other sources also in English, as well as interpret the obtained data, draw conclusions, and formulate and justify opinions.

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## **Course objective**

Expanding knowledge in the field of chemical technology and related fields and product quality assessment, the basics of production management enabling students to link their theoretical knowledge with the experience of practitioners passed on during lectures. Deepening students' knowledge of how to conduct real technological processes, problems arising during the implementation of such processes, how to respond and solve them.

### **Course-related learning outcomes**

### Knowledge

- 1. Expanded and in-depth knowledge in the field of chemical technology and other related areas of science, allowing to formulate and solve complex problems related to chemical technology. [K W2]
- 2. Knowledge of complex chemical processes, including the appropriate selection of materials, raw materials, methods, techniques, apparatus and equipment for carrying out chemical processes and characterizing the products obtained. [K\_W3]

#### Skills

The ability to obtain and critically evaluate information from literature, databases and other sources, and formulate opinions and reports on this basis. [K U1]

### Social competences

- 1. Awareness of the need for lifelong learning and professional development. [K K1]
- 2. Awareness of the limitations of science and technology related to chemical technology, including environmental protection. [K K2]

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

Learning outcomes presented above are verified as follows:

Test on a Moodle platform (3 questions to each lecture).

# **Programme content**

Lectures cover a variety of topics related to chemical technology in various industries (food, pharmaceutical, fertilizers), product quality assessment, production management, environmental protection regulations. Each lecture is conducted by various practitioners, representatives of companies from Poznań and Greater Poland.

Lectures are conducted as part of two thematic paths:

• S1: Technological processes in practical aspects

The lectures cover the subject of soft skills - production efficiency management, personal development and technological problems in the pharmaceutical, food and fertilizer industries.

• S2: Pro-ecological solutions in production processes

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The lectures cover the subject of soft skills - production process management, project management and technological problems in the pharmaceutical and food industry, validation of methodologies and quality control of results, principles of transport of hazardous substances.

## **Teaching methods**

Lecture, discussion

# **Bibliography**

Basic

Determined directly by the lecturer.

Additional

Determined directly by the lecturer.

## Breakdown of average student's workload

|   | Hours | ECTS |
|---|-------|------|
| Total workload  | 25    | 1,0  |
| Classes requiring direct contact with the teacher       | 15    | 0,6  |
| Student's own work (literature studies, preparation for | 10    | 0,4  |
| tests/exam, project preparation) <sup>1</sup>           |       |      |

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