# 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 - Prakt	yczne aspekty procesów p	rodukcyjnych (Elective Subject - Practical aspects	
of production processes)			
Course			
Field of study		Year/Semester	
Technologia chemiczna (Che	emical Technology)	I/2	
Area of study (specialization	ו)	Profile of study	
Elektrochemia techniczna (1	Technical Electrochemistry	y) general academic	
Level of study		Course offered in	
Second-cycle studies		Polish	
Form of study		Requirements	
full-time		elective	
Number of hours			
Lecture	Laboratory class	ses Other (e.g. online)	
15	0	0	
Tutorials	Projects/semina	ars	
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	
magdalena.regel-rosocka@put.poznan.pl		magdalena.emmons-burzynska@put.poznan.pl	
Wydział Technologii Chemicznej, ul. Berdychowo 4, 60-965 Poznań		Wydział Technologii Chemicznej, ul. Berdychowo 4, 60-965 Poznań	

# 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.

# POZNAN UNIVERSITY OF TECHNOLOGY



EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS) pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

# **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



# POZNAN UNIVERSITY OF TECHNOLOGY

EUROPEAN CREDIT TRANSFER AND ACCUMULATION SYSTEM (ECTS) pl. M. Skłodowskiej-Curie 5, 60-965 Poznań

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	0,8
Student's own work (literature studies, preparation for	10	0,2
tests/exam, project preparation) <sup>1</sup>		

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