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			
Toxicologic, health and social aspect	s of drug addiction		
Course			
Field of study			Year/Semester
Chemical and process engineering			2/3
Area of study (specialization)			Profile of study
Bioprocesses and biomaterials engineering			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	5	Other (e.g. online)
15			
Tutorials	Projects/seminars		
Number of credit points			
1			
Lecturers			
Responsible for the course/lecturer: dr hab. Michał Moritz		Responsible for	the course/lecturer:

Prerequisites

Issues concerning the chemical structure and properties of organic compounds. Basic knowledge in the field of biochemistry, cell biology and human physiology.

Course objective

Become familiar with kinds of addiction, types of addiction substance and health effects arising from their usage.

Course-related learning outcomes

Knowledge

Student possesses expanded knowledge in the field of chemistry and related fields of knowledge. Student possesses knowledge concerning the properties of bioactive compounds. Student knows the relationships between the chemical structure and biological activity of compounds (**K_W03**).

Skills

Student possesses the ability to acquire and to critically assess the knowledge both, from the literature and from the databases (K_U01).





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Social competences

Student understands the need of learning and acquiring the knowledge from professional sources (K_K01).

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Written test (90 min.) containg open and closed questions (about 7-10 open questions and about 15-20 test questions). 50% of questions have to be answered correctly to pass. The subject matter required for the test will be transmitted to students during the course.

Programme content

- 1. Discussion of basic definitions (addiction, types of addictions, toxicity of drugs, drugs' metabolism).
- 2. Elaboration of receptor mechanisms related to the activity of addiction substances.
- 3. Discussion of addiction substances' types regarding their chemical structure and pharmacological activity (sleep-inducing drugs, tranquililzers, anti-depressants, opioid analgesic drugs, ethyl alcohol).
- 4. "Afterburners" as the new psychoactive drugs, toxicity, rules of conduct in case of poisoning, social aspects od using new psychoactive substances.

Teaching methods

Classical lecture supported by multimedia presentation.

Bibliography

Basic

1. Patrick Graham, Chemia Medyczna, PWN, Warszawa 2019.

2. Anna Krakowiak, Aleksnder Rutkiewicz (red.), Dopalacze-od teorii do praktyki klinicznej, α -medica press, 2019.

Additional

Scientific papers concerning biological activity and toxicity of new drugs and addiction substances.

Breakdown of average student's workload

	Hours	ECTS
Total workload	25	1
Classes requiring direct contact with the teacher	15	0,5
Student's own work (literatrure studies), preparation for the tests ¹	10	0,5

¹ delete or add other activities as appropriate