



Subject card

Subject name and code	Chemistry and technology of pharmaceuticals, PG_00038549						
Field of study	Chemical Technology						
Date of commencement of studies	February 2024	Academic year of realisation of subject			2023/2024		
Education level	second-cycle studies	Subject group			Optional subject group Subject group related to scientific research in the field of study		
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			Polish		
Semester of study	1	ECTS credits			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Chemistry and Technology of Functional Materials -> Faculty of Chemistry						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Ewa Wagner-Wysiecka					
	Teachers	dr hab. inż. Ewa Wagner-Wysiecka					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	15.0	0.0	0.0	30
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours		Self-study	SUM	
	Number of study hours	30	5.0		15.0	50	
Subject objectives	Gaining basic knowledge of chemistry, technology, mechanisms of action and analysis of pharmaceuticals.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
Subject contents	History of drug chemistry. Classification and nomenclature of drugs. Chemical mechanisms of drug action. Physical and chemical properties, drug structure and its therapeutical properties. Quality control systems in pharmaceutical industry. Analytical control of drug purity. Technologies of the selected drugs. Optimization of the technological process. Environmental aspects of drug preparation. Formulations of drugs. The new compounds design and the modification of the current substances as a way for preparation of new drugs.						
Prerequisites and co-requisites	Knowledge of organic and analytical chemistry						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Lecture: passing two tests		50.0%		50.0%		
	Laboratory: passing all the exercises		50.0%		50.0%		
Recommended reading	Basic literature		1. G. L. Patrick „Chemia medyczna”, WNT, 2003 2. A. Zejc, M. Górczyca „Chemia leków”, PZWL, 2004 3. G. L. Patrick „Chemia leków” seria „Krótkie wykłady”, WNT, 2004 4. M. Zając, E. Pawełczyk, A. Jelińska „Chemia leków”, Wydawnictwo Naukowe Uniwersytetu Medycznego im. Karola Marcinkowskiego, Poznań, 2006				
	Supplementary literature		1. R. B. Silverman „Chemia organiczna w projektowaniu leków” WNT, 2004				
	eResources addresses		Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						