

Subject card

Subject name and code	Selected aspects of pharmaceutical techniques, PG_00024946							
Field of study	Mechanical and Medical Engineering							
Date of commencement of studies	October 2022		Academic year of realisation of subject		2024/2025			
Education level	first-cycle studies		Subject group					
Mode of study	Full-time studies		Mode of delivery		at the university			
Year of study	3		Language of instruction		Polish			
Semester of study	6		ECTS credits		1.0			
Learning profile	general academic profile		Assessment form		assessment			
Conducting unit	Faculty of Mechanical Engineering and Ship Technology							
Name and surname	Subject supervisor prof. Wiesław Sawicki							
of lecturer (lecturers)	Teachers							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project		Seminar	SUM
	Number of study hours	0.0	0.0	0.0	0.0		15.0	15
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	15		3.0		7.0		25
Subject objectives	Skills and competences: characterization and description of essential oral dosage forms. Skills and competences: quality assessment of drug formulation, selection of storage conditions for medicinal products.							
Learning outcomes	Course outcome Subject outcome Method of verification							
Subject contents	 Technology of oral solid formulations and related biopharmaceutical aspects: basic operations (granulation, tableting, coating, drying); types of tableting machines, construction and operation of laboratory tableting machine XP1 from Korsch company, drum coating - apparatus and the process, fluidbed granulation, drying and coating, coating excipients; granules characteristics, methods of production, excipients, tests; pellets characteristics, methods of production; tablets (oral, for oral cavity, for solutions and suspensions, coated and uncoated, excipients); gelatin capsules soft and hard, of modified release, multiparticulate delivery formulations; modified drug release oral formulations: enteric coated and prolonged release methods of production, role of the excipients; methods of quality control for tablets and capsules. 							
Prerequisites and co-requisites		-						
Assessment methods and criteria	Subject passing criteria		Pass	Passing threshold		Percentage of the final grade		
	term with credit		60.0%			100.0%		
Recommended reading	Basic literature Janicki St., Fiebig A., Applied Pharmacy. Manual for Students of pharmacy, PZWL, Warszawa 2002.							
	Supplementary literature Lunio R., Sawicki W.: Tablets - methods and mechanism of manufacturing. Part I. Pol. Pharm., 2008; 64, nr 6, 265-275. Sawicki W., Krasowska M.: Methods and mechanism of tablets production. Part II. Pol. Pharm., 2009; 65, nr 1, 59-68. Resources addresses Adresy na platformie eNauczanie:						5.	
Example issues/ example questions/ tasks being completed								
Work placement	Not applicable							

Data wydruku: 18.07.2024 10:17 Strona 1 z 1