

Subject card

Subject name and code	Basics of pharmacognosy, PG_00082091						
Field of study	Chemistry						
Date of commencement of studies	October 2026		Academic year of realisation of subject			2026/2027	
Education level	Bachelor's studies		Subject group			Obligatory subject group in the field of study 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	2		ECTS credits			3.0	
Learning profile	academic		Assessment form			credit	
Conducting unit	Faculty of Chemistry -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr n. med. Adam Kokotkiewicz				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	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		40.0	75
Subject objectives	The aim of the course is to present the problems related to medicinal use of plants and provide students with techniques used in phytochemical analyses of major secondary metabolites in plant materials						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	[CHEML3_W05] Has basic knowledge of the chemical specialisation studied.		learns the aspects of medicinal use of plant materials and techniques of phytochemical analysis of major secondary metabolites in plant materials			[SW4] test/exam - oral or written	
	[CHEML3_W03] Explains the relationship between the structure of matter and its observed properties.		learns the aspects of medicinal use of plant materials and techniques of phytochemical analysis of major secondary metabolites in plant materials			[SW4] test/exam - oral or written	
Subject contents	- history of phytochemistry - Pharmacognosy as scientific discipline and practical knowledge (areas of interest, basic terms and definitions) - biologically-active natural compounds: primary metabolites (carbohydrates, fats, proteins) and secondary metabolites (glycosides, terpenoids, phenylpropanoids, alkaloids) chemical structures, physico-chemical properties, occurrence in plants (examples of plant materials) - phytochemical analysis of the respective natural compounds groups (extraction methods, qualitative and quantitative analysis) - biological activity of selected groups of natural compounds and examples of medicinal use						
Prerequisites and co-requisites	organic chemistry- knowledge of chemical compounds like: hydrocarbons, carbohydrates, heterocyclic compounds, proteins, peptides, amino-acids, alcohols, aldehydes, ketones and their physico-chemical properties is required						
Assessment methods and criteria	Subject passing criteria		Passing threshold			Percentage of the final grade	
	test		51.0%			100.0%	

Recommended reading	Basic literature	Literature required to pass the course Stanisław Kohl Münzer- Farmakognozja- PZWN, Warszawa, 2007
	Supplementary literature	not applicable
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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