University of Gdańsk

Subject card

Subject name and code	Basics of pharmacognosy, PG_00082091		
Field of study	Chemistry		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2024/2025
Education level	Bachelor's studies	Subject group	Obligatory subject group 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	dr n. med. Adam Kokotkiewicz dr Magdalena Oset dr hab. Hanna Margońska	

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 Kohlmünzer- 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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