


KAPITAŁ LUDZKI
 NARODOWA STRATEGIA SPÓJNOŚCI

 Projekt współfinansowany przez
 Unię Europejską w ramach
 Europejskiego Funduszu
 Społecznego

UNIA EUROPEJSKA
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 FUNDUSZ SPOŁECZNY


Course title		ECTS code	
Basics of pharmacognosy		13.3.0854	
Name of unit administrating study			
Faculty of Chemistry			
Studies			
faculty	field of study	type	drugiego stopnia
Wydział Biologii	Biologia medyczna	form	stacjonarne
		specjalty	wszystkie
		specialization	wszystkie
Wydział Biologii	Biologia	type	drugiego stopnia
		form	stacjonarne
		specjalty	wszystkie
Wydział Chemii	Chemia	specialization	wszystkie
		type	pierwszego stopnia
		form	stacjonarne
		specjalty	chemia biomedyczna, chemia kosmetyków
		specialization	wszystkie
Teaching staff			
dr n. med. Adam Kokotkiewicz; dr Magdalena Oset; prof. dr hab. Martin Kukwa; dr hab. Hanna Margońska; dr Magdalena Dudek			
Forms of classes, the realization and number of hours		ECTS credits	
Forms of classes		3 classes - 30 h tutorial classes – 10 h student's own work – 35 h	
Lecture			
The realization of activities			
classroom instruction		Total: 75 h - 3 ECTS	
Number of hours			
Lecture: 30 hours			
The academic cycle			
2022/2023 summer semester			
Type of course		Language of instruction	
- an elective course - obligatory		polish	
Teaching methods		Form and method of assessment and basic criteria for evaluation or examination requirements	
multimedia-based lecture		Final evaluation	
		Graded credit	
		Assessment methods	
		- (mid-term / end-term) test - Mid-course test Final exam: written test with single choice questions or essay items	
		The basic criteria for evaluation	
		At least 51% correct answers in the test is required to pass the exam	
Method of verifying required learning outcomes			
Required courses and introductory requirements			
A. Formal requirements			
none			
B. Prerequisites			
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			

Aims of education	
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	
Course contents	
<ul style="list-style-type: none"> - 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 	
Bibliography of literature	
A. Literature required to pass the course Stanisław Kohlmünzer- Farmakognozja- PZWN, Warszawa, 2007	
The learning outcomes (for the field of study and specialization)	Knowledge
	learns the aspects of medicinal use of plant materials and techniques of phytochemical analysis of major secondary metabolites in plant materials
	Skills
	understands the role of plant materials in medicine can conduct phytochemical analysis of plant materials
	Social competence
	understands the need of continuous education and personal development
Contact	
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