KAPITAŁ LUDZKI
NARODOWA STRATEGIA SPÓJNOŚCI

Projekt współfinansowany przez Unię Europejską w ramach Europejskiego Funduszu Społecznego

UNIA EUROPEJSKA
EUROPEJSKI 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		
Wydział Biologii	Biologia medyczna	type	drugiego stopnia
		form	stacjonarne
		specialty	wszystkie
		specialization	wszystkie
Wydział Biologii	Biologia	type	drugiego stopnia
		form	stacjonarne
		specialty	wszystkie
		specialization	wszystkie
Wydział Chemii	Chemia	type	pierwszego stopnia
		form	stacjonarne
		specialty	chemia biomedyczna, chemia kosmetyków
		specialization	wszystkie

Teaching staff

dr n. med. Adam Kokotkiewicz; dr Magdalena Oset; dr hab. Hanna Margońska; dr Magdalena Dudek; prof. dr hab. Martin Kukwa

Forms of classes, the realization and number of hours

Forms of classes

Lecture

The realization of activities

classroom instruction

Number of hours

Lecture: 30 hours

ECTS credits

3
classes - 30 h
tutorial classes – 10 h
student's own work – 35 h

Total: 75 h - 3 ECTS

The academic cycle

2022/2023 summer semester

Type of course

- an elective course
- obligatory

Language of instruction

polish

Teaching methods

multimedia-based lecture

Form and method of assessment and basic criteria for eveluation or examination requirements

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

- 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

adam.kokotkiewicz@biol.ug.edu.pl