UNIWERSYTET GDAŃSKI

Course title
Podstawy farmakognozji / Basics of pharmacognosy

ECTS code
13.3.0854

Name of unit administrating study
Faculty of Chemistry

Studies

Field of study	Type	Form	
Chemistry	Bachelor	Full-time studies	

Teaching staff
Adam Kokotkiewicz, PhD

Forms of classes, the realization and number of hours

A. Forms of classes, in accordance with the UG Rector's regulations
lecture

B. The realization of activities
in-class learning

C. Number of hours
30 h lecture

ECTS credits 3

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

Total: 75 h - 3 ECTS

The academic cycle
2019/2020 summer semester

Type of course
obligatory

Language of instruction
Polish

Teaching methods

Lecture with multimedia presentation

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

A. Final evaluation, in accordance with the UG study regulations
course completion (with a grade)

B. Assessment methods
Mid-course test
Final exam: written test with single choice questions or essay items

C. The basic criteria for evaluation or exam requirements

At least 51% correct answers in the test is required to pass the exam

Required courses and introductory requirements
-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

B. Extracurricular readings

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