

<b>Course title</b> Podstawy farmakognozji / Basics of pharmacognosy		<b>ECTS code</b> 13.3.0854	
<b>Name of unit administrating study</b> Faculty of Chemistry			
<b>Studies</b>			
<b>Field of study</b>	<b>Type</b>	<b>Form</b>	
Chemistry	Bachelor	Full-time studies	
<b>Teaching staff</b> Adam Kokotkiewicz, PhD			
<b>Forms of classes, the realization and number of hours</b>		<b>ECTS credits</b> 3	
<b>A. Forms of classes, in accordance with the UG Rector's regulations</b> lecture		classes - 30 h tutorial classes – 10 h student's own work – 35 h	
<b>B. The realization of activities</b> in-class learning		Total: 75 h - 3 ECTS	
<b>C. Number of hours</b> 30 h lecture			
<b>The academic cycle</b> First year, summer semester			
<b>Type of course</b> obligatory		<b>Language of instruction</b> Polish	
<b>Teaching methods</b>  Lecture with multimedia presentation		<b>Form and method of assessment and basic criteria for evaluation or examination requirements</b>	
		<b>A. Final evaluation, in accordance with the UG study regulations</b> course completion (with a grade)	
		<b>B. Assessment methods</b> Mid-course test Final exam: written test with single choice questions or essay items	
		<b>C. The basic criteria for evaluation or exam requirements</b>  At least 51% correct answers in the test is required to pass the exam	
<b>Required courses and introductory requirements</b> -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			
<b>Aims of education</b> 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			
<b>Course contents</b>  - 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			
<b>Bibliography of literature</b>			
<b>A. Literature required to pass the course</b> Stanisław Kholmünzer- Farmakognozja- PZWN, Warszawa, 2007			
<b>B. Extracurricular readings</b>			

**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