

## Karta przedmiotu / Course description

Informacje ogólne o przedmiocie / General information about the course	
<b>1. Kierunek studiów / Major of study:</b> Pharmacy	<b>2. Poziom kształcenia / Study level:</b> Uniform master's studies
<b>4. Rok / Year:</b> III	<b>3. Forma studiów / Form of study:</b> Full-time studies <b>5. Semestr / Semester:</b> V and VI
<b>6. Nazwa przedmiotu / Course name:</b> Pharmacognosy	
<b>7. Status przedmiotu / Course status:</b> Obligatory	
<b>8. Jednostka realizująca przedmiot, adres, e-mail:</b> <b>Name of Department, mailing address, e-mail:</b> Department of Pharmacognosy and Phytochemistry, Faculty of Pharmaceutical Sciences in Sosnowiec, Jagiellońska 4, 41-200 Sosnowiec, farmafit@sum.edu.pl	
<b>9. Treści programowe przedmiotu Course contents:</b> The aim of education is to familiarize students with herbal substances, plant active substances, their chemical structure and application in medicine, as well as quality assessment methods The subject introduces students in issues related to herbal medicine and phytotherapy.	
<b>10. liczba godzin z przedmiotu / Number of hours for the course</b>	<b>150*</b>
<b>11. liczba punktów ECTS dla przedmiotu / Number of ECTS points for the course</b>	<b>10</b>
<b>12. Formy i tematy zajęć / Forms and topics of classes**</b>	<b>Liczba godzin Number of hours</b>
<b>12.1. Lectures</b> Basic concepts of pharmacognosy and phytochemistry, basic methods of pharmacognostic and phytochemical analyses Oils in plants Muces in plants Vitamins Selected herbal substances – the contents of active ingredients, their application and pharmacological activities – the current state of knowledge	<b>45*</b>
<b>12.2. Seminars</b> Primary metabolites in herbal substances – biogenesis, their occurrence in medicinal plants, applications in medicine and pharmacy Secondary metabolites in herbal substances – biogenesis, their occurrence in medicinal plants, applications in medicine and pharmacy	<b>45*</b>
<b>12.3 Laboratory classes</b> Anatomical and morphological analyses of herbal substances containing primary metabolites. Phytochemical analyses of herbal substances containing primary metabolites. Anatomical and morphological analyses of herbal substances containing secondary metabolites. Phytochemical analyses of herbal substances containing secondary metabolites. Application of pharmacopeial methods of pharmacognostic analyses	<b>60*</b>
<b>*The number of hours can be modified based on specific requirements of incoming Student's original course syllabus, course duration (one or two semesters) in the Department of Pharmacognosy and Phytochemistry and according to ECTS guidelines</b>	

**\*\* Type of classes can be modified based on specific requirements of incoming Student's original course syllabus and according to ECTS guidelines**

**13. Literatura / Readings**

1. Wichtl M (ed.). Herbal Drugs and Phytopharmaceuticals, Third Edition 2004 CRC PR INC
2. European Scientific Cooperative on Phytotherapy (ESCOP) Monographs
3. European Medicines Agency online monographs for herbal substances
4. WHO monographs on selected medicinal plants
5. Scientific literature provided by a teacher

**14. Kryteria oceny – szczegóły / Detail evaluation criteria**

Zgodnie z zaleceniami organów kontrolujących / [In accordance with the recommendations of the inspection bodies](#)

Zaliczenie przedmiotu - student osiągnął zakładane efekty uczenia się / [Completion of the course – student has achieved the assumed learning outcomes](#)

Szczegółowe kryteria zaliczenia i oceny z przedmiotu są zamieszczone w regulaminie przedmiotu / [Detail criteria for completion and evaluation of the course are specified in the course regulations](#)