

Karta przedmiotu / Course description

| Informacje ogólne o przedmiocie / General information about the course | |
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| 1. Kierunek studiów / Major of study: Biotechnology | 2. Poziom kształcenia / Study level: I |
| 4. Rok / Year: I | 3. Forma studiów / Form of study: stationary |
| | 5. Semestr / Semester: I or II |
| 6. Nazwa przedmiotu / Course name: PLANT BIOLOGY | |
| 7. Status przedmiotu / Course status: compulsory | |
| 8. Jednostka realizująca przedmiot, adres, e-mail: Name of Department, mailing address, e-mail: Department of Pharmaceutical Botany and Herbalism, Faculty of Pharmacy, botanikasekr@sum.edu.pl , ul. Ostrogórska 30, 41–200 Sosnowiec, Poland | |
| 9. Treści programowe przedmiotu Course contents: Basic study on plant cell, plant tissue, plant morphology with special attention to economic plants. Methods in botany. Botanical documentation of plant-based scientific research. | |
| 10. liczba godzin z przedmiotu / Number of hours for the course | 15 |
| 11. liczba punktów ECTS dla przedmiotu / Number of ECTS points for the course | 1 |
| 12. Formy i tematy zajęć / Forms and topics of classes 12.1. Lectures – 12.2. Seminars – 12.3 Laboratory classes Introductory class. Occupational safety and health in a botanical lab. Regulations of the botanical lab and course. Methodology of students' botanical documentation. Botanical guides and methods of identification in botany. Operation of optical microscope. Structure of plant cell. Crystalline substances, storage organelles, plant pigments and their usage Leaf anatomy, covering tissues: epidermis and its cell differentiation (stomata, trichomes). Secretory and excretory structures. Plant morphology: stem, foliage, leaf, storage organs (roots etc.) Morphology of generative organs: inflorescences, flowers, fruits, seeds. Morphology of generative organs (continued). Fundamentals of morphology-based systematics and practical identification of species of medicinal or economy plants. Selected medicinal, toxic or economical plants, an overview. Plant identification basics. Carpology. Key for plant identification. Botanical iconography. Methods of documentation of plant-based research. The herbarium as a reference tool, voucher specimens and their accession numbers. ThePlantList.org and Index Herbariorum. Field class: wild and ornamental plants of Park Śląski in Chorzów. A visit to the Museum of Pharmacy | Liczba godzin Number of hours |
| 13. Literatura / Readings | |
| 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 | |