

Course name: Basics of botany (USOS Code: B-B.2003Eng)

ECTS: 5

No. of hours: 60 (20 lectures + 40 classes)

Course coordinator: Dr Urszula Świdarska

Prerequisites: General knowledge of botany at the high school level

Course description: The main purpose of the course is to learn about the richness and diversity of plant species, their morphological and anatomical structure, environmental requirements, ways of reproduction, distribution, evolution, relationships with other organisms, and the role and importance in the natural environment. The issues of the classes also concern the great importance and role of plants in human life and in the economy, i.e. their practical use in the food industry, pharmaceutical industry, medicine and biotechnology.

The program also concerns the impact of environmental factors on the development and spread of plants, principles of plant protection, discussion of plant taxonomy, characteristics of representatives of selected groups, selected plant communities, as well as protected species and plants important from a practical point of view (including medicinal plants).

Recommended literature:

- 1) Bresinsky A., Körner Ch., Kadereit J.W., Neuhaus G., Sonnewald U. 2013. Strassburger's Plant Sciences Including Prokaryotes and Fungi. Vol. 1 & 2. Springer – Verlag Berlin Heidelberg.
- 2) Shipunov A. 2020. Introduction to botany. http://ashipunov.info/shipunov/school/biol_154/
- 3) Esau K. 1977. Anatomy of seed plants. John Wiley & Sons, New York, pp. 550.
- 4) Internet sources: Botanical Dictionary: (<http://botanydictionary.org/>); Plant Anatomy: http://facweb.furman.edu/~lthompson/bgy34/plantanatomy/plant_shoot.htm; <http://www.sci.sdsu.edu/plants/econbot/02-PlantAnatomy.pdf>)