Study Program: Biology

Type and level of studies: Bachelor studies

Course name: Systematics and phylogeny of flowering plants

Lecturer: Krivošej, Đ. Zoran

Status: Compulsory

ECTS: 7

Attendance Prerequisites:

Course aims

The course aims to familiarise students with: phylogenetic development of higher plants, principles and methods in plant taxonomy, hierarchy and recognition of important taxa within the flora of Serbia, especially endemic and relict vascular plants.

Course outcome

The students have gained:
1) knowledge/ability to understand the phylogenic development of higher plants;
2) knowledge/ability to understand the principles of plant taxonomy;
3) knowledge/ability to understand the characteristics of specific taxonomic categories, chosen based on their presence in the Serbian flora and their phylogenic significance.
4) the skills to identify and classify vascular plants using botanical determination keys.

Course content

Theoretical Part:

Introduction, Historical development of Systematics, Sources and methods of phylogenetic systematics, Levels (degrees) of classification (principles of taxonomy), Botanical nomenclature, Origin of higher plants, On the origin of higher plant organs, Systematic examination of higher plants, Mosses (Bryophyta), Lycopodiae (Lycopodiophyta), Horsetails (Equisetophyta), Ferns (Polypodiophyta), Gymnosperms (Pinophyta), Angiosperms (Magnoliophyta).

Practical Part: Exercises, Other forms of teaching, research work

Processing of fresh or herbarium material of mosses, shortcuts, ferns, Gymnospermae and Magnoliophyta (flowering plants), introducing the morphological characteristics of plants of the mentioned groups.

Literature

1. Татић, Б., Блечић, В. СИСТЕМАТИКА И ФИЛОГЕНИЈА ВИШИХ БИЉАКА, Завод за уџбенике и наставна средства, Београд, 1984.
2. Магдефрау, К., Ехрендорфер, Ф. БОТАНИКА – СИСТЕМАТИКА, ЕВОЛУЦИЈА, ГЕОБОТАНИКА, Школска књига, Загреб, 1978.
3. Петковић, Б., Марин, П., Божа, П. ПРАКТИКУМ ИЗ СИСТЕМАТИКЕ ВИШИХ БИЉАКА, Наука, Београд

Number of active classes				Other classes
Lectures: 3	Practical classes:	Other forms of teaching: 2	Students' research work	

Teaching methods

Theoretical classes, Practical classes (exercises), Field exercises, Vascular plant identification tests, consultations.

Assessment (maximum 100 points)

Course assignments	**points**	Final exam	**points**
activity during lectures	**10**	written exam/identification	**15**
practical classes	**10**	oral exam	**55**
Term test/s			
Seminar/s	**10**		
Total	**30**		**70**