Botany, II (Plant systematic) (Ist Year of study, IInd Semester)

Credit value (ECTS) 4

Course category
Fundamental (Imposed)

Course holder:
Prof. Culiţă SÎRBU, PhD

Discipline objectives (course and practical works)

The course aims to help students acquire the main concepts related to the plant classification (definition, hierarchy, nomenclature and identification of plant taxa); knowledge of general characteristics of the plant kingdoms; knowledge of general characteristics and principal representatives of the phyla *Bryophyta*, *Polypodiophyta*, *Pinophyta* and *Magnoliophyta*. The representative families, genera and species of the vascular flora of Romania are presented (which are more common in the natural environment or have greater importance in relation to human interests).

Practical works aim the direct observation and knowledge of the main vascular plant families, representative for the flora of Romania.

Contents (syllabus)

Course (chapters/subchapters)
1. Plant systematic and taxonomy - general concepts
1.1. Classification systems
1.2. Taxonomic units (taxa)
1.3. Botanical nomenclature
1.4. The systematic overview of the plant world
1.5. The plants identification
2. The kingdoms *Monera, Protista* and *Fungi* (general characters)
3. The kingdom *Plantae* (general characters and systematic)
3.1. Phylums *Bryophyta, Polypodiophyta* and *Pinophyta*
3.2. Phylum *Magnoliophyta*
3.2.1. Class *Magnoliopsida* (*Dicotyledonatae*)
3.1.1. Subclass *Magnoliidae*
3.1.2. Subclass *Hamamelidae*
3.1.3. Subclass *Rosidae*
3.1.4. Subclass *Caryophyllydae*
3.1.4. Subclass *Dilleniidae*
3.1.6. Subclass *Asteridae*
3.2.2. Class *Liliopsida* (*Monocotyledonatae*)

Practical works
Phylum *Bryophyta*, Phylum *Polypodiophyta*
Phylum *Pinophyta*: Fam. *Pinaceae*
Phylum *Magnoliophyta*: Fam. *Ranunculaceae*

Fam. *Papaveraceae, Moraceae, Fagaceae, Juglandaceae*
Fam. *Rosaceae*
Fam. *Fabaceae*
Fam. *Aceraceae, Vitaceae, Apiaceae*
Fam. *Caryophyllaceae, Chenopodiaceae, Brassicaceae*
Fam. *Salicaceae, Tiliaceae, Malvaceae, Oleaceae, Convolvulaceae*
Fam. *Cuscutaceae, Solanaceae, Scrophulariaceae, Orobanchaceae*
Fam. *Lamiaceae*
Fam. *Asteraceae*
Fam. *Liliaceae, Amaryllidaceae, Iridaceae*
Fam. *Poaceae*

Bibliography

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Sîrbu C., Paraschiv N.L. 2005 – *Botanica sistematică*. Edit. I.I. de la Brad Iaşi.

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Turenschi E., Pascal P., Sîrbu C., Paraschiv N.L. 1998 – *Lucrari practice-Botanica*. Litogr. USAMV Iaşi, 146 pp.

Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Active participation in learning activities	Evaluation during the semester	20%
Periodic tests on the practical works	Tests with various items	20%
Final examination	Written examination	60%

Contact

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