

Collecting and preserving teaching material (IIIInd, Vrd SEMESTER)

Credit value (ECTS) 3

Course category

Domain (optional)

Course holder:

Assoc. Prof. PhD. Silvica PĂDUREANU

Discipline objectives (course and practical works)

The course aims to make students acquire the main techniques of conservation of biological materials of vegetable and animal used in lessons teaching, but also research establishments, museums of natural sciences and even in places of higher education (laboratories morphology and plant anatomy, botany, comparative animal anatomy, anatomy and histology macroscopic).

Practical work aims to familiarize students with methods and techniques specific work collections of whole organisms or parts of organisms plant and animal, slaughter, skinning, gutting, to preservation for the displays museum through conservation dry preparations liquid, taxidermy.

Contents (syllabus)

Course (chapters/subchapters)
The Importance of collections of biological material. Principles for organizing collections of biological material.
Methods, procedures and techniques used to prepare plant collections: Collection of plants. Stages of compiling a herbarium. Theme herbarium. Drying the plants in sand. Collections of plants preserved in liquid.
Methods, procedures and techniques used for establish collections of invertebrates: Collections of coelenterate. Collections of worms. Collections of mollusks. Collections of insects. Collections of shellfish.
Methods, procedures and techniques used for establish collections of vertebrates: Collections of fish. Collections of frogs. Collections of reptiles. Collections of birds. Taxidermy of birds. Mummification of small birds. Collections of mammals. Taxidermy of small, medium and large mammals. Mummification of small mammals.

Practical works
Collections of plants preserved in liquid.
Preparation of invertebrates preserved in liquid collections.
Preparation of invertebrates preserved collections dry.
Preparation of collections of fish, frogs and reptiles preserved in liquid.
Preparation of bird collections preserved by mummification.
Preparation bird collections preserved by mummification.
Final colloquium of knowledge evaluation

Bibliography

1. Handrea I., 1969 – *Materialul didactic de științele naturale și agricultură*, Ed. Did. și Pedag., București
2. Nadra E., 1955 – *Colectarea, conservarea și naturalizarea vertebratelor pentru muzee*, Ed. de Stat, București
3. Papadopol A., 1964 – *Confecționarea materialului didactic pentru științele naturii*, Ed. Did. și Pedag., București
4. **Pădureanu Silvica, 2014** – *Colectarea și conservarea materialului didactic - Note de curs*, Univ. "Ion Ionescu de la Brad" Iași
5. Pârvu C., 1981 – *Îndrumar pentru cunoașterea naturii*, Ed. Did. și Pedag., București

Evaluation

Evaluation form	Evaluation Methods	Percentage of the final grade
Exam	Examination by written test	60%
Appreciation of the activity during the semester	Oral assessment during the semester, verification tests and final laboratory colloquium.	40%

Contact

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