

Paleobiology (IIInd, IVrd SEMESTER)

Credit value (ECTS) 2

Course category

Domain (Optional)

Course holder:

Assoc. Prof. PhD. Silvica PĂDUREANU

Discipline objectives (course and practical works)

The course aims to make students acquire knowledge about the global evolution of life, of obtaining essential information on phylogenetic relationships between extinct and existing creatures. It also highlights the role of fossil given that their study can infer characteristics of extinct species: metabolic characteristics of locomotion, nutrition, reproduction or reconstruction of missing links in food chains.

Practical work aims to familiarize students with concepts of geological time, knowledge geochronology units (eon, era, period) and the related ancestral flora and fauna.

Contents (syllabus)

Course (chapters/subchapters)
Object of paleobiology. Stages of development paleobiology.
Fossils: The process of fossilization. Modes of fossilization. The importance of fossils.
Paleobiology elements of prokaryotes.
Paleobiology elements of protists.
Paleobiology elements of fungi.
Paleobiology elements of plants. Vegetable stages of development. Plant phylogeny.
Animal Paleobiology elements. Invertebrates. Vertebrates. Animal phylogeny.

Practical works
Geologic time scale.
Archaic Aeon. Proterozoic eon. Paleocology of Precambrian.
Phanerozoic eon. Paleozoic Era. Life in Cambrian. Life in Ordovician. Life in Silurian. Life in Devonian. Life in Carboniferous. Life in Permian.
Mesozoic Era. Life in Triassic. Life in Jurassic. Life in Cretaceous.
Neozoic Era. Life in Paleogene. Life in Neogen Life in Quaternary.
Final colloquium of knowledge evaluation

Bibliography

1. Bejenaru Luminița, 2003 - *Arheozoologia spațiului romanesc medieval*, Ed. Univ. "Al.I. Cuza", Iași
2. Benton, M., 2005 – *Vertebrate palaeontology*, ediția a treia, Blackwell Publishing, Oxford
3. Cojocaru I., 2002, *Paleobiologie-* vol I, Ed. Univ. "Alexandru Ioan Cuza", Iași
4. Cojocaru I., 2003, *Paleobiologie-* vol II, Ed. Univ. "Alexandru Ioan Cuza", Iași
5. Cojocaru I., 2004, *Paleobiologie-* vol III, Ed. Univ. "Alexandru Ioan Cuza", Iași

6. Cojocaru I., 2005 - *Paleobiologie*- vol IV, Ed. Univ. "Alexandru Ioan Cuza", Iași
7. Ion I., Ion. C., Gache C., Valenciuc N., 2003 – *Zoologia vertebratelor*, Ed. Univ. "Al.I.Cuza" Iași
9. Mustață Gh., Mustață Mariana, Costică M., 2004 – *Regnurile lumii vii*, Ed. Venus, Iași
10. **Pădureanu Silvica, 2014** – *Paleobiologia – Note de curs*, Univ. "Ion Ionescu de la Brad" Iași

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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