Study Program: Biology

Type and level of studies: Bachelor studies

Course name: Systematics and phylogeny of chordates

Lecturer: Labus Đ. Nenad

Status: Compulsory

ECTS: 7

Attendance Prerequisites: Comparative anatomy of Chordates

Course aims

The course aims to familiarise students with the theoretical basis of chordate systematics, taxonomy and classification, as well as the phylogenic relations and the biological characteristics within the main groups of chordates and vertebrates.

Course outcome

The students have acquired the latest knowledge related to chordate systematics and phylogeny and are able to understand their evolutionary process.

Course content

Theoretical part:

Systematics, taxonomy, classification, nomenclature - basic definitions. Basic features and systematics of the Hemichordata, Tunicata and Cephalochordata. Basic features and systematics of the Agnatha. The origin, main features and a general overview of recent groups of fish (рецентне групе риба). Main features and evolution of terrestrial vertebrates. An overview and basic characteristics of the main groups of amphibians. Main characteristics of reptiles. The origin and main directions within reptile phylogeny. Main characteristics of birds. A general overview of the basic groups of Palaeognathae and Neognathae. Basic characteristics of mammals. An overview of the basic groups of Mammalia. Determining the connections between different groups in systematics: the phonetic, cladistic and evolutionary approach. Phylogenetic relationships of the chordate taxon.

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

Introduction to the systematic categories, diagnostic character and the general characteristics of the basic groups of chordates, with special focus on examining the Balkan Peninsula vertebrate fauna. Indicating the basic rules for using identification keys for vertebrate fauna.

Literature

1. Калезић, М., Љ. Томовић (2007). Хордати. ННК Интернационал, Београд.
2. Симоновић, П. (2001). Рибе Србије. ННК Интернатионал. Београд.
3. Симоновић, П., Томовић, Љ., Радојичић, Ј., Кризманић, И., Марић, С. (2004). Систематика вертебрата – практикум. ННК Интернационал, Београд.
4. Томовић, Љ., Калезић, М. (2011). Хордати - Биологија група. Биолошки факултет Универзитета у Београду, Београд.

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

Teaching methods

Theoretical classes, practical classes, term tests.

Assessment (maximum 100 points)

Course assignments	**points**	Final exam	**points**
activity during lectures	**10**	written exam/identification	**20**
practical classes	**20**	oral exam	20
Term test/s	**20**		
Seminar/s	**10**		
Total	**60**		40