Study Program: Biology

Type and level of studies: Bachelor studies

Course name: Comparative anatomy of Chordates

Lecturer: Labus Đ. Nenad

Status: Compulsory

ECTS: 6

Attendance Prerequisites:

Course aims

The students gaining an insight into the contemporary view of chordate anatomy and systematics, as well as into the biological role of their morphological units.

Course outcome

The students are able to use their knowledge of chordate anatomy when studying the problems of structure/function of anatomical units and perceiving their evolutionary changes.

Course content

Theoretical part

Introduction to the basic anatomical characteristics of chordates. Basic anatomical characteristics of vertebrates. Integumentary system. Receptor system. Nervous and endocrine system. Skeletal system. Muscular system. Coelom and mesenteries. Digestive system. Respiratory system. Circulatory system. Excretory and reproductive system.

Practical part

Introduction to the basic characteristics of the Tunicata and Cephalochordata. Introduction to the basic characteristics of the integumentary system of fish, amphibians and mammals, by observing dissections under a microscope. Introduction to the structure of the eye wall via microscopic observation. Introduction to the main features of the skeletal system of fish, amphibians, birds and mammals through practical work in the facility. Dissection of selected representatives of fish, amphibians and mammals, introduction to the basics characteristics of their sensory, nervous, digestive, respiratory, circulatory, urinary and reproductive systems.

Literature

1. Калезић, М. (2008). Основи морфологије кичмењака. Четврто издање, Завод за уџбенике и наставна средства, Београд.
2. Марић, С., Кризманић, И., Томовић, Љ., Симоновић, П. (2006). Морфологија хордата – практикум. Биолошки факултет Универзитета у Београду.
3. Станковић, С. (1950). Упоредна анатомија кичмењака. Научна књига. Београд. Број часова активне наставе Ост

Number of active classes				Other classes
Lectures: 2	Practical classes: 0	Other forms of teaching: 2	Students' research work	

Teaching methods

Lectures, calculation exercises, laboratory exercises, consulting, term papers, homework, written exam.

Assessment (maximum 100 points)

Course assignments	**points**	Final exam	**points**
activity during lectures	**10**	written exam	**20**
practical classes	**20**	oral exam	**20**
term test(s)	**20**	.....	
seminar(s)	**10**		
Total	**60**		**40**