



OPIS PREDMETA / SUBJECT SPECIFICATION

Predmet:	Biologija živali
Subject Title:	Biology of Animals

Študijski program Study programme	Študijska smer Study field	Letnik Year	Semester Semester
Biologija in ekologija z naravovarstvom /Biology and ecology with nature conservation	Biologija /Biology	1	1

Univerzitetna koda predmeta / University subject code:

Predavanja Lectures	Seminar Seminar	Sem. vaje Tutorial	Lab. vaje Lab. work	Teren. vaje Field work	Samost. delo Individ. work	ECTS
45			30		105	6

Nosilec predmeta / Lecturer:

Jeziki / Predavanja / Lecture:
Languages: Vaje / Tutorial:

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti: Prerequisites:

Vsebina:	Contents (Syllabus outline):
Primerjalni študij živali (nevretenčarji, vretenčarji): Koža. Mišičje, skelet in gibanje. Živčevje in čutila. Prebavila, prehrana in prebava. Izločala. Celom. Dihala. Krovožilje. Spolni organi in razmnoževanje. Evolucija: nevretenčarji (Protostomia, Deuterostomia), vretenčarji.	Comparative approach (invertebrates, vertebrates): Skin. Musculature, skeleton and movement. Nervous system and sensory system. Alimentary system, feeding and digestion. Excretory organs. Coelom. Respiratory organs. Circulatory system. Reproductive system and reproduction. Evolution: invertebrates (Protostomia, Deuterostomia), vertebrates.

Temeljni študijski viri / Textbooks:

Brusca R.C., Brusca G.J., 2003: Invertebrates. Sinauer, Sunderland.

Kryštufek, B., 1991: Sesalci Slovenije. Prirodoslovni muzej Slovenije, Ljubljana.

Kryštufek, B., Janžekovič, F., 1999: Ključ za določanje vretenčarjev Slovenije. DZS, Ljubljana.

Liem, K. F., W. E. Bemis, W. F. Walker, L. Grande, 2001: Functional Anatomy of the Vertebrates. An Evolutionary Perspective. Harcourt College Publishers. Orlando.

Nielsen C. 2001: Animal Evolution. Interrelationships of the Living Phyla. 2nd Edition. Oxford University

Press, New York.

Niethammer, J. & F. Krapp, 1978: Handbuch der Säugetiere Europas. Akademische Verlagsgesellschaft, Wiesbaden.

Pough F.H., C. M. Janis, J. B. Heiser, 2005: Vertebrate Life. Pearson Education International. New Jersey.

Ruppert E.E., Fox R.S., Barnes R.D., 2004: Invertebrate Zoology. A functional evolutionary approach. Seventh edition. Thomson, Victoria, Toronto, London.

Vaughan, T.A., J.M. Ryan, N.J. Czaplewski, 2000: Mammalogy. Thomson Learning. London.

Objectives:

Cilji:

- Razumevanje gradbenega plana glavnih debel nevretenčarjev in razredov vretenčarjev
- Razumevanje odnosov med obliko, funkcijo in adaptivno radiacijo
- Poznavanje odnosa med evolucijo in morfologijo ter načinom življenja
- Poznavanje metod in tehnik v zoologiji

- Understanding the »bauplan« of the invertebrate phyla and classes of vertebrates
- Understanding relationships among form, function and adaptive radiation
- Understanding relationship between evolution, morphology and environment
- Knowledge of methods and techniques in zoology

Predvideni študijski rezultati:

Intended learning outcomes:

Znanje in razumevanje:

- Povezave med organizacijo živalskega telesa in njegovim okoljem
- Biodiverzitete živali na regionalnem in svetovnem nivoju
- Metode in tehnike dela v zoologiji
- Poznavanje naravovarstvene problematike živali

Knowledge and Understanding:

- Relations between animal body organization and the environment
- Knowledge of animal biodiversity at the regional and global level
- Understanding methods and techniques of study of animals
- Knowledge of the conservation topics

Prenesljive/ključne spretnosti in drugi atributi:

- Sposobnost načrtovanja in izvedbe opazovanj in eksperimentov na živalih
- Sposobnost načrtovanja in upravljanja s populacijami vretenčarjev

Transferable/Key Skills and other attributes:

- Ability to arrange observations and experiments with animals
- Ability to arrange observations and managing with populations of vertebrates

Metode poučevanja in učenja:

Learning and teaching methods:

- Predavanja
- Laboratorijske vaje in individualno eksperimentalno delo
- Terensko delo

- Lectures
- Laboratory exercises and individual experimental practice
- Field work

Načini ocenjevanja:

Delež (v %) /
Weight (in %)

Assessment:

- Seminarska naloga
- Ustni ali pisni izpit

50
50

- Seminar essay
- Oral or written exam

Materialni pogoji za izvedbo predmeta :

- *Multimedijska predavalnica*
- *Laboratorij za zoologijo*

Material conditions for subject realization

- *Lecture hall for multimedia presentation*
- *Laboratory for zoology*

Obveznosti študentov:

(pisni, ustni izpit, naloge, projekti)

Students' commitments:

(written, oral examination, coursework, projects):

<ul style="list-style-type: none">• Seminarska naloga• Ustni ali pisni izpit	<ul style="list-style-type: none">• Seminar essay• Oral or written exam
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