



OPIS PREDMETA / SUBJECT SPECIFICATION

Predmet: Subject Title:	Splošna zoologija Fundamentals of Zoology
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Študijski program Study programme	Študijska smer Study field	Letnik Year	Semester Semester
Biologija/Biology	Biologija/Biology	1	2

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			45		90	6

Nosilec predmeta / Lecturer: Tone NOVAK

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

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

Vsebina: Uvod, zgodovinski razvoj biologije Živalska celica in njene posebnosti Živalska tkiva: epitelno in țlezno tkivo, veziva in opornine, mišično tkivo, țivčno tkivo, nenormalna tkiva Zgradba in funkcija organskih sistemov in organov: koža, skelet, gibala, električni organi, svetilni organi, telesne votline, prebavila, dihala, organi za transport snovi, izločala, čutila, țivčevje, inkretorni organi, genitalni organi Združevanje organizmov (kolonije, kormi, jate, črede, krdele) Razmnoževanje in razvoj. Nespolno razmnoževanje. Spolno razmnoževanje: mejoza in gametogeneza, osemenitev, oploditev, embrionalni razvoj, postembrionalni razvoj, staranje, regeneracija in reparacija. Posebni načini razmnoževanja: partenogeneza, heterogonija, metageneza	Contents (Syllabus outline): Introduction, history of biological science Animal cell and its specificities Animal tissues: epithelial and gland tissues, connective and skeletal tissues, muscle tissue, nervous tissue, abnormal tissues Structure and function of organ systems and organs: integumentary system, skeleton, motion organs, electrical organs, lighting organs, body cavities, digestion organs, respiratory organs, circulatory systems, excretion systems, sense organs, nervous system, endocrine systems, reproductive systems Associations of animals: colonies, corms, flights, flocks, herds Reproduction and development. Asexual reproduction. Sexual reproduction: meiosis and gametogenesis, insemination, fertilization, embryo development, postembryonic development, aging, regeneration and reparation. Special ways of reproduction:
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	parthenogenesis, heterogony and methagenesis
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Temeljni študijski viri / Textbooks:

- Solomon, E. P., L. R. Berg , D. W. Martin, 2005: Biology. Thomson Brooks/Cole-Thomson Learning, Belmont, USA.
- Štrus, J., 1999: Splošna zoologija. Študentska založba, Ljubljana.

Cilji:

- Pridobitev znanja o osnovnih zakonitostih tivaljenja tivali z vidika raznolikosti in obenem enotnosti

Objectives:

- Knowledge on fundamental principles of animal life in aspect of variation and uniformity.

Predvideni študijski rezultati:

Intended learning outcomes:

Znanje in razumevanje:

- Obvladovanje osnovnih metod eksperimentalnega dela v zoologiji
- Seznanitev s strukturo in funkcijo od celice do organizma
- Razumevanje strukturnih prilagoditev, tivaljenjskih procesov in tivaljenjskih ciklov pri tivalih

Prenesljive/ključne spremnosti in drugi atributi:

- Obvladovanje dela z optičnim mikroskopom
- Sekcija manjše tivali
- Poznavanje osnovne zgradbe in funkcije tivali od celice do organizma

Knowledge and Understanding:

- Mastery in the fundamental experimental methods in zoology.
- Getting aquainted with structure and function from cell to organism.
- Understanding the structural adaptations, life processes and life cycles of animals.

Transferable/Key Skills and other attributes:

- Qualification for work with optical microscope.
- Section of a small animal.
- Fundamental knowledge on structure and function of animals from cell to organism.

Metode poučevanja in učenja:

Learning and teaching methods:

- Predavanja
- Laboratorijske vaje

- Lectures
- Laboratory excercises

Načini ocenjevanja:

Delež (v %) / Weight (in %) / **Assessment:**

<ul style="list-style-type: none"> • Kolokvij iz vaj • Pisni izpit 	50 50	<ul style="list-style-type: none"> • Partial exam of laboratory exercises • Written exam
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Materialni pogoji za izvedbo predmeta :

- Multimedijska predavalnica
- Laboratorij z mikroskopi in binokularnimi lupami

Material conditions for subject realization

- Lecture hall for multimedia presentations
- Laboratory with microscopes and binocular lenses

Obveznosti študentov:

(pisni, ustni izpit, naloge, projekti)

- Kolokvij iz vaj
- Pisni izpit

Students' commitments:

(written, oral examination, coursework, projects):

- Partial exam of laboratory exercises
- Written exam