



OPIS PREDMETA / SUBJECT SPECIFICATION

Predmet:	Etologija
Subject Title:	Ethology

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	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
30	15		30		135	7

Nosilec predmeta / Lecturer:

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

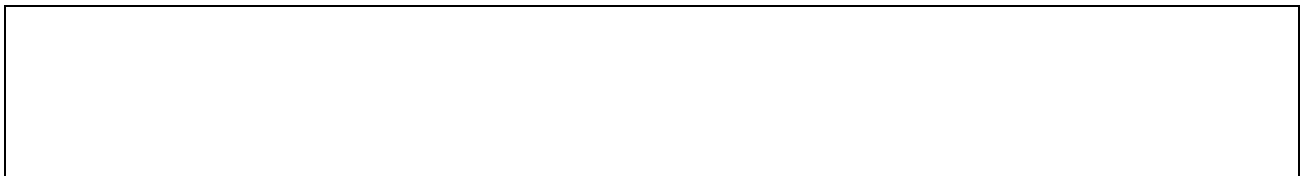
Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti: **Prerequisites:**

Vsebina: **Contents (Syllabus outline):**

<ul style="list-style-type: none">• Evolucijski pristop k študiju vedenja živali• Raznolikost vedenja• Vedenje in dednost• Razvoj vedenja• Živčne osnove vedenja• Organizacija vedenja• Trendi v evoluciji vedenja• Evolucija adaptacij. Evolucija komunikacij• Izbira habitata, migracije, teritorialnost• Adaptivno prehranjevalno vedenje• Adaptacije na plenilstvo• Razmnoževalne strategije; ekologija razmnoževanja• Skrb za potomstvo• Ekologija socialnega vedenja• Evolucijski pristop k študiju vedenja človeka	<ul style="list-style-type: none">• An evolutionary approach to animal behaviour• The diversity of behaviour• The genetics of behaviour• The development of behaviour• The neural basis of behaviour• The organization of behaviour• The evolution of behaviour: historical pathways• The evolution of adaptations and communication• Habitat selection, migration, territoriality• Adaptive feeding behaviour• Coping with predators• Reproductive tactics; the ecology of mating system• Care for offspring• The ecology of social behaviour• An evolutionary approach to human behaviour
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Temeljni študijski viri / Textbooks:

<ul style="list-style-type: none">• Alcock, J., 2005: Animal behavior: an evolutionary approach. 8th ed. Freeman, Sunderland.• Barrows, E. M., 2003: Animal Behavior Desk Reference. CRC Press, Boston.• Dugatkin, L. A. (ed.), 2001: Model systems in behavioural ecology. Princeton University Press, Princeton.• McFarland, D., 1985: Animal Behaviour, Longman, Harlow.

**Cilji:**

Študenti

- Razumejo metode, ki se uporabljajo pri študiju vedenja
- Usvojijo temeljna znanja za raziskovanje kompleksnosti vedenja
- Spoznajo, da se je vedenje med evolucijo spreminjalo
- Spoznajo področja, na katerih se aplicirajo znanja etologije (npr. sociologija, filozofija, psihologija)

Objectives:

Students:

- Understand basic methods used in behavioural studies
- acquire basic knowledge necessary to study complexity of behaviour
- understand evolutionary trends in behaviour
- In addition, students get acquainted with the areas in which ethology is applied (e. g. sociology, philosophy, psychology)

Predvideni študijski rezultati:

Znanje in razumevanje:

Študenti

- Razumejo povezavo med vedenjem in evolucijo
- Spoznajo kompleksnost vedenja
- Razumejo živčne osnove vedenja
- Razumejo adaptivno vlogo plastičnosti vedenja
- Razumejo pomen socialnega vedenja

Prenesljive/ključne spretnosti in drugi atributi:

- Sposobnost načrtovati in izvesti preproste eksperimente za testiranje odzivov živali na kontrolirane spremembe v njenem okolju
- Sposobnost ovrednotiti rezultate etološkega poskusa

Intended learning outcomes:

Knowledge and Understanding:

Students:

- Understand relations between behaviour and evolution
- Become aware of the complexity of behaviour
- Understand the neural basis of behaviour
- Understand an adaptive role of plasticity of behaviour
- Understand the significance of social behaviour

Transferable/Key Skills and other attributes:

- Ability to arrange simple experiments testing behavioural responses of an animal to controlled changes of its environment.
- Ability to evaluate results of a behavioural experiment.

Metode poučevanja in učenja:

- Predavanja
- Laboratorijske vaje – individualno eksperimentalno delo

Learning and teaching methods:

- Lectures
- Laboratory excersises – individual experimental practice

Načini ocenjevanja:

Delež (v %) /
Weight (in %)

Assessment:

- Praktične naloge
- Laboratorijski dnevnik
- Kolokvij iz vaj
- Seminarska naloga
- Pisni izpit

10
10
10
20
50

- Practical work
- Diary
- Examination of experimental practice
- Seminar essay
- Written exam

Materialni pogoji za izvedbo predmeta :

Material conditions for subject realization

- *Multimedijska predavalnica*
- *Laboratorij za fiziologijo in etologijo živali*

- *Lecture hall for multimedia presentation*
- *Laboratory for animal physiology and ethology*

Obveznosti študentov:

Students' commitments:

(pisni, ustni izpit, naloge, projekti)

(written, oral examination, coursework, projects):

- *Praktične naloge*
- *Laboratorijski dnevnik*
- *Kolokvij iz vaj*
- *Seminarska naloga*
- *Pisni izpit*

- *Practical work*
- *Diary*
- *Examination of experimental practice*
- *Seminar essay*
- *Written exam*