

**UČNI NAČRT PREDMETA / COURSE SYLLABUS**

<b>Predmet:</b>	Izbrana poglavja iz biologije sesalcev
<b>Course title:</b>	Selected Topics in Biology of Mammals

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Doktorski študij Ekološke znanosti, 3. stopnja		1. ali 2.; 1st or 2nd	1. 2. ali 3.; 1st, 2nd or 3rd
Doctoral Study Ecological Sciences, 3rd degree			

**Vrsta predmeta / Course type**

Izbirni/Elective

**Univerzitetna koda predmeta / University course code:**

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Lab. vaje Laboratory work	Terenske vaje Field work	Samost. delo Individ. work	ECTS
5				5	140	5

**Nosilec predmeta / Lecturer:**

Franc Janžekovič

Jeziki / Languages:	Predavanja / Lectures:	slovenski / slovene
	Vaje / Tutorial:	slovenski / slovene

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

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**Vsebina:**

Obravnava izbranih poglavij iz naslednjih sklopov.

Značilnosti sesalcev.  
 Oblika funkcija in adaptivna radiacija.  
 Sistematika sesalcev.  
 Vedenje in komunikacija.  
 Vedenje in okolje.  
 Razmnoževanje in razvoj.  
 Populacijska dinamika in varovanje.

**Content (Syllabus outline):**

Selected topics in the following chapters are discussed.

Characteristics of mammals.  
 Adaptive radiation of forms and functions.  
 Systematics of mammals.  
 Behavior and communication.  
 Behavior and environment.  
 Reproduction and development.  
 Population dynamics and conservation.

**Temeljni literatura in viri / Readings:**

- Kryšufek B. 1991. Sesalci Slovenije. PMS. Ljubljana.
- Niethammer J., Krapp F., 1978. Handbuch der Säugetiere Europas. Akademische Verlagsgesellschaft. Wiesbaden.
- Pough F.H., Janis C.M., Heiser J.B., 2005. Vertebrate Life. Pearson Education International. New Jersey.
- Vaughan T.A., Ryan J.M., Czaplewski N.J., 2010. Mammalogy. Thomson Learning. London.

**Cilji in kompetence:**

- Podrobno razumevanje diagnostičnih značilnosti sesalcev.
- Podrobno razumevanje odnosov med obliko, funkcijo in adaptivno radiacijo.
- Podrobno razumevanje sistematike sesalcev.
- Podrobno razumevanje vedenja in komunikacije med sesalci.
- Podrobno razumevanje odnosov med vedenjem in okoljem.
- Podrobno poznavanje razmnoževanja in ontogenije sesalcev.
- Podrobno poznavanje metod in tehnik merjenja populacijske dinamike in varovanja sesalcev.

**Objectives and competences:**

- Knowledge diagnostical characteristics of mammals.
- Advanced understandig relationship among form, function and adaptive radiation.
- Advenced knowledge of mammal systematics.
- Advanced understandig behavior and communication among mammals.
- Advanced understandig relationship between mammal behavior and environment.
- Advanced knowledge of reproduction and mammal ontogeny.
- Advanced knowledge of methods and techiques of population dynamics measuring and mammals conservation.

**Predvideni študijski rezultati:****Znanje in razumevanje:**

- Podrobne povezave med organizacijo sesalčjega telesa in njegovim okoljem.
- Podrobno poznavanje biodiverzitete sesalcev na regionalnem in svetovnem nivoju.
- Podrobno razumevanje metod in tehnik merjenja sesalčjih populacij.
- Podrobno poznavanje naravovarstvene problematike sesalcev.

**Prenesljive/ključne spremnosti in drugi atributi:**

- Sposobnost načrtovanja in izvedbe najzahtevnejših opazovanj in eksperimentov na sesalcih.
- Sposobnost najzahtevnejšega načrtovanja in uravljanja s selčimi populacijami.

**Intended learning outcomes:****Knowledge and understanding:**

- Relations between mammals body and its evironment.
- Knowledge of mammals biodiversity at the regional and global level.
- Understanding methods and technics of mammals population measuring.
- Knowledge of the conservation problems.

**Transferable/Key Skills and other attributes:**

- Ability to arrange exacting observations and experiments on mammals.
- Ability to arrange exacting observations and managing on mammals population.

Predavanja Terensko delo	Lectures Field work
Delež (v %) / Weight (in %)	
<b>Načini ocenjevanja:</b>	<b>Assessment:</b>
Seminarska naloga Ustni izpit	50 50 Seminar essay Oral exam

## **Reference nosilca / Lecturer's references:**

KLENOVŠEK, Tina, NOVAK, Tone, ČAS, Miran, TRILAR, Tomi, JANŽEKOVIČ, Franc. Feeding ecology of three sympatric *Sorex* shrew species in montane forests of Slovenia. *Folia Zoologica*, ISSN 0139-7893 0139-7893, 2013, vol. 62, no. 3, str. 193-199, ilustr. [COBISS.SI-ID [3707046](#)]

LIPOVŠEK DELAKORDA, Saška, JANŽEKOVIČ, Franc, LEITINGER, Gerd, RUPNIK, Marjan. Rab3a ablation related changes in morphology of secretory vesicles in major endocrine pancreatic cells, pituitary melanotroph cells and adrenal gland chromaffin cells in mice. *General and comparative endocrinology*, ISSN 0016-6480, 2013, vol. 185, str. 67-79.

<http://dx.doi.org/10.1016/j.ygcen.2013.01.007>. [COBISS.SI-ID 19733768]

KRYŠTUFEK, Boris, KLENOVŠEK, Tina, VARLJEN BUŽAN, Elena, LOY, Anna, JANŽEKOVIČ, Franc. Cranial divergence among evolutionary lineages of Martino's vole, *Dinaromys bogdanovi*, a rare Balkan paleoendemic rodent. *Journal of mammalogy*, ISSN 0022-2372, 2012, vol. 93, iss. 3, str. 818-825, doi: [10.1644/11-MAMM-A-260.2](https://doi.org/10.1644/11-MAMM-A-260.2). [COBISS.SI-ID [19312904](#)]

KRYŠTUFEK, Boris, ŠORGO, Andrej, JANŽEKOVIČ, Franc. Elevational distribution of small terrestrial mammals on Mt. Pohorje, Slovenia = Distribuzione altitudinale di piccoli mammiferi terrestri sul monte Pohorje, Slovenia. *Annales, Series historia naturalis*, ISSN 1408-533X, 2010, vol. 20, št. 2, str. 113-122, ilustr. [COBISS.SI-ID [18189576](#)]