

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Etologija
Course title:	Ethology

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Enovit magistrski študijski program druge stopnje Predmetni učitelj	/		
Five-year master's degree program Subject Teacher	/		

Vrsta predmeta / Course type	Izbirni/Elective
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Univerzitetna koda predmeta / University course code:	
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Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Lab. vaje Laboratory work	Druge oblike študija	Samost. delo Individ. work	ECTS
30			15		135	6

Nosilec predmeta / Lecturer:	Vesna Klokočovnik
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Jeziki / Languages:	Predavanja / Lectures: slovenski / slovene
	Vaje / Tutorial: slovenski / slovene

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti: Poznavanje osnov zoologije. Poznavanje metod dela v fiziologiji živali.	Prerequisites: Knowledge of fundamentals of zoology. Knowledge of methods of animal physiology.
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Vsebina:	Content (Syllabus outline):
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| <ul style="list-style-type: none"> • Iz zgodovine študija 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 • Etološke osnove vedenja človeka | <ul style="list-style-type: none"> • On the history of the study of 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 • Ethological basis of human behaviour |
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Temeljni literatura in viri / Readings:

- Rubenstein, D.R., Alcock, J., (2018). Animal behavior. 11th ed. Oxford University Press.
- Manning, A., Stamp Dawkins, M. (2012). An introduction to animal behaviour. Cambridge University Press
- Davies, N. B., Krebs, J. R., West, S. A. (2012). An Introduction to Behavioural Ecology. Fourth edition. Wiley-Blackwell.
- Martin, P. R., Bateson, P. P. G. (2010). Measuring behaviour : an introductory guide. Cambridge University Press.

Cilji in kompetence:

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

Objectives and competences:

- 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:

Intended learning outcomes:

<p>Znanje in razumevanje:</p> <ul style="list-style-type: none"> • Razumejo povezavo med vedenjem in evolucijo • Spoznajo kompleksnost vedenja • Razumejo živčne osnove vedenja • Razumejo adaptivno vlogo plastičnosti vedenja • Razumejo pomen socialnega vedenja <p>Prenesljive/ključne spretnosti in drugi atributi:</p> <ul style="list-style-type: none"> • Sposobnost načrtovati in izvesti preproste eksperimente za testiranje odzivov živali na kontrolirane spremembe v njenem okolju • Sposobnost ovrednotiti rezultate etološkega poskusa 	<p>Knowledge and understanding:</p> <ul style="list-style-type: none"> • 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 <p>Transferable/Key Skills and other attributes:</p> <ul style="list-style-type: none"> • Ability to arrange simple experiments testing behavioural responses of an animal to controlled changes of its environment. • Ability to evaluate results of behavioural experiment.
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<p>Metode poučevanja in učenja:</p> <ul style="list-style-type: none"> • Predavanja • Laboratorijske vaje - individualno eksperimentalno delo 	<p>Learning and teaching methods:</p> <ul style="list-style-type: none"> • Lectures • Laboratory exercises - individual experimental practice 												
<p>Načini ocenjevanja:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Način (pisni izpit, ustno izpraševanje, naloge, projekt)</th> <th style="text-align: center; padding: 5px;">Delež (v %) / Weight (in %)</th> <th style="text-align: left; padding: 5px;">Assessment:</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Praktično delo in seminarska naloga</td> <td style="text-align: center; padding: 5px;">50</td> <td style="padding: 5px;">Type (examination, oral, coursework, project):</td> </tr> <tr> <td style="padding: 5px;">Pisni izpit</td> <td style="text-align: center; padding: 5px;">50</td> <td style="padding: 5px;">Practical work and seminar essay</td> </tr> <tr> <td></td> <td></td> <td style="padding: 5px;">Written exam</td> </tr> </tbody> </table>	Način (pisni izpit, ustno izpraševanje, naloge, projekt)	Delež (v %) / Weight (in %)	Assessment:	Praktično delo in seminarska naloga	50	Type (examination, oral, coursework, project):	Pisni izpit	50	Practical work and seminar essay			Written exam	
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		Written exam											

<p>Reference nosilca / Lecturer's references:</p> <p>KLOKOČOVNIK, Vesna, DEVETAK, Dušan, ORLAČNIK, Marina. Behavioral plasticity and variation in pit construction of antlion larvae in substrates with different particle sizes. Ethology, Nov. 2012, vol. 118, iss. 11, str. 1102-1110, doi: 10.1111/eth.12012. [COBISS.SI-ID 19324936]</p> <p>KLOKOČOVNIK, Vesna, HAUPTMAN, Gregor, DEVETAK, Dušan. Effect of substrate temperature on behavioural plasticity in antlion larvae. Behaviour, ISSN 0005-7959, 2016, vol. 153, issue 1, str. 31-48, doi: 10.1163/1568539X-00003322. [COBISS.SI-ID 21695496]</p>
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KLOKOČOVNIK, Vesna, DEVETAK, Dušan. Pit-builder vs non-pit-builder : advantage of trap building strategy in antlion larvae does not mean greater behaviour diversity. Behaviour, ISSN 0005-7959, 2014, vol. 151, issue 5, str. 653-668, ilustr.

<http://booksandjournals.brillonline.com/content/journals/10.1163/1568539x-00003156>, doi: 10.1163/1568539X-00003156. [COBISS.SI-ID 20356872]

KLOKOČOVNIK, Vesna, ŠORGO, Andrej, DEVETAK, Dušan. Hands-on experiments on predatory behaviour with antlion larvae. Journal of Biological Education, ISSN 0021-9266, 2016, vol. 50, no. 4, str. 384-394, ilustr., doi: 10.1080/00219266.2015.1117513. [COBISS.SI-ID 21928200]