



Univerza v Mariboru

Fakulteta za naravoslovje
in matematiko

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Izbrana poglavja iz entomologije
Course title:	Selected Topics in Entomology

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.- 4.; 1st-4th
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
15			10	5	150	6

Nosilec predmeta / Lecturer: Dušan DEVETAK

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

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

Poznavanje členonožcev, ekologije in biodiverzitete na ravni univerzitetnega programa

Prerequisites:

Knowledge of arthropods, ecology and biodiversity at graduate level

Vsebina:

Obravnavana so izbrana poglavja iz naslednjih poglavij:

Pregled morfolologije, anatomije in fiziologije žuželk.
Interakcije med žuželkami in drugimi organizmi.
Uvod v medicinsko entomologijo.
Invazivne žuželke.
Varstvo biodiverzitete žuželk.

Content (Syllabus outline):

Selected topics in the following chapters are discussed:

A review of the morphology, anatomy, and physiology of insects.
Interactions between insects and other organisms.
An introduction to medical entomology.
Invasive insects.
Insect diversity conservation.

Temeljni literatura in viri / Readings:

- Dettner, K., W. Peters, 2010: Lehrbuch der Entomologie. Springer Spektrum.
- Freude, H., K. W. Harde, G. A. Lohse (eds.), 1965-1984: Die Käfer Mitteleuropas.- Band I-XI, Goecke & Evers Verlag, Krefeld.
- Groom, M. J., G. K. Meffe, C. R. Carroll (Eds.), 2005: Principles of Conservation Biology.- Thirt Edition, Sinauer.
- Jurc, M., 2008: Gozdna zoologija.- 2. izdaja, Univerzitetni učbenik, Univerza v Ljubljani, Biotehniška fakulteta, Oddelek za gozdarstvo in obnovljive gozdne vire.
- Lieutier, F., K. R. Day, A. Battisti, J.-C. Grégoire, H. F. Evans, 2004: Bark and Wood Boring Insects in Living Trees in Europe, a Synthesis.- Kluwer Academic Publishers.
- Resh, V.H., R.T. Cardé, 2003: Encyclopedia of insects. Academic Press.
- Ruppert, E. E., R. S. Fox, R. D. Barnes, 2004: Invertebrate zoologyA functional evolutionary approach. Saunders College Publishing.
- Samways, M., 2005: Insect Diversity Conservation. Cambridge Univerity Press.
- Speight, M. C. D., 1989: Saproxylic invertebrates and their conservation. Strasbourg, Council of Europe.

Cilji in kompetence:

- Poznavanje biologije žuželk in razumevanje interakcij med žuželkami in drugimi organizmi.
- Z razumevanjem bionomije, avtekologije in demekologije različnih žuželčjih vrst študentje podrobno spoznajo njihovo vlogo in pomen v ekosistemu.
- Podrobno razumejo potrebe po naravovarstvu žuželk.

Objectives and competences:

- Understanding biology of insects and their interactions with other organisms.
- By understanding the bionomy, autecology, and demecology of various insect species in detail, students learn about their role and importance in ecosystem.
- Understanding in detail the need for conservation of insects.

Predvideni študijski rezultati:

Znanje in razumevanje:

- Študenti podrobno usvojijo znanja o diverziteti žuželk.
- Razumejo pomen žuželk za človeka.
- Razumejo pomen entomofavne v biosferi in potrebe po njeni ohranitvi.

Prenesljive/ključne spretnosti in drugi atributi:

- Povezovanje bioloških znanj in znanj varstvene biologije.

Intended learning outcomes:

Knowledge and understanding:

- Students acquire advanced knowledge of biodiversity of insects.
- Understanding the importance of inscts for humans.
- They understand significance of entomofauna in biosphere, and needs for its conservation.

Transferable/Key Skills and other attributes:

- Integration of the biological knowledge and conservation biology knowledge.

Metode poučevanja in učenja:

Learning and teaching methods:

- Predavanja - Terensko delo - Laboratorijsko delo.	- Lectures - Field work - Laboratory work.
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Delež (v %) /

Načini ocenjevanja:

Weight (in %)

Assessment:

- Seminaraska naloga	50 %	- Seminar essay
- Pisni izpit	50 %	- Written exam

Reference nosilca / Lecturer's references:

DEVETAK, Dušan, KLOKOČOVNIK, Vesna, LIPOVŠEK DELAKORDA, Saška, BOCK, Elisabeth, LEITINGER, Gerd. Larval morphology of the antlion *Myrmecaelurus trigrammus* (Pallas, 1771) (Neuroptera, Myrmeleontidae), with notes on larval biology. *Zootaxa*, ISSN 1175-5326, 2013, vol. 3641, no. 4, str. 491-500, ilustr. <http://dx.doi.org/10.11646/zootaxa.3641.4.14>. [COBISS.SI-ID [19837192](#)], [JCR, SNIP, WoS do 4. 9. 2016: št. citatov (TC): 5, čistih citatov (CI): 5, [Scopus](#) do 26. 1. 2017: št. citatov (TC): 7, čistih citatov (CI): 7] ZM - zoology ; 73/153 ; četrtina: 2 ; x=1.255 ; IFmin: 0.978 ; IFmax: 1.596

DEVETAK, Dušan, KLOKOČOVNIK, Vesna, RAUSCH, Hubert, JANŽEKOVIČ, Franc. Fauna of the Neuropterida (Raphidioptera, Neuroptera) of the Protected area Jasen, Macedonia : a summer flash. *Turkish journal of zoology*, ISSN 1300-0179, 2015, vol. 39, iss. 1, str. 15-27, ilustr. <http://journals.tubitak.gov.tr/zoology/issues/zoo-15-39-1/zoo-39-1-2-1305-43.pdf>. [COBISS.SI-ID [20717576](#)], [JCR, SNIP, WoS do 9. 11. 2016: št. citatov (TC): 2, čistih citatov (CI): 1, [Scopus](#) do 17. 11. 2016: št. citatov (TC): 2, čistih citatov (CI): 1] ZM - zoology ; 92/161 ; četrtina: 3 ; x=1.262 ; IFmin: 0.615 ; IFmax: 0.971

KLOKOČOVNIK, Vesna, PODLESNIK, Jan, DEVETAK, Dušan. Occurrence of the antlion tribe Acanthaclisini in the Balkan Peninsula : (Neuroptera, Myrmeleontidae). *Spixiana*, ISSN 0341-8391, 2016, bd. 39, h. 1, str. 99-104, ilustr. [COBISS.SI-ID [22594568](#)], [JCR, SNIP, WoS do 12. 11. 2016: št. citatov (TC): 0, čistih citatov (CI): 0, [Scopus](#) do 29. 10. 2016: št. citatov (TC): 0, čistih citatov (CI): 0] ZM - zoology ; 117/161 ; četrtina: 3 ; x=1.262 ; IFmin: 0.615 ; IFmax: 0.971