



Univerza v Mariboru

Fakulteta za naravoslovje
in matematiko

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Biološki terenski praktikum
Course title:	Biology Field Course

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	/	2	4
Five-year master's degree program Subject Teacher	/		

Vrsta predmeta / Course type

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	30	45	3

Nosilec predmeta / Lecturer:

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

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

Prerequisites:

Vsebina:

Praktično spoznavanje terestričnih habitatov in habitatnih tipov v Sloveniji, ki temelji na terenskem delu.
Vodni in obvodni habitati (mlaka oz. mrtvica, ribnik, potok, reka, rečno obrežje, gozd).
Gozdni habitati: gozd, gozdni rob, biodiverzitetna talnih organizmov, degradacija habitata.
Travniški habitati, grmišča.
Podzemeljski habitati.

Content (Syllabus outline):

Practical knowledge of terrestrial habitats and habitat types in Slovenia, based on field work.
Water- and near-water habitats (pools, bog, pond, stream, river, river bank, forest).
Forest habitats: forest, forest edge, biodiversity of soil organisms, habitat degradation.
Grassland habitats, bushes.
Hypogean habitats.

Temeljni literatura in viri / Readings:

Chapin, F. S., P. A. Matson, H. A. Mooney, 2002: Principles of terrestrial ecosystem ecology. Springer Verlag.
Določevalni ključni rastlin in živali / Identification keys for animals and plants.
Mršič, N., 1997: Živali naših tal. Tehniška založba Slovenije.

Cilji in kompetence:

Študenti spoznajo glavne živalske skupine v izbranih habitatih.

Znati uporabljati ključne (determinacija)

Objectives and competences:

Students get familiar with animals inhabiting selected habitats.

Practical skills in animal and plant determination.

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

Razumevanje kompleksnosti zgradbe ekosistema.
Poznavanje glavnih skupin rastlin in živali.
Razumevanje pomena rastlin in živali v ekosistemu.

Prenesljive/ključne spretnosti in drugi atributi:

Determinacija – delo s ključi.
Delo na terenu in v laboratoriju.

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

Understanding of complexity of an ecosystem.
Knowledge of plant and animal groups.
Understand the role of animals and plants in ecosystems.

Transferable/Key Skills and other attributes:

Determination – usage keys for determination.
Field and laboratory work.

Metode poučevanja in učenja:

Terensko delo: zbiranje podatkov.
Laboratorijsko delo: obdelava, determinacija.

Learning and teaching methods:

Field work: collecting data.
Laboratory work: analysis, determination.

Načini ocenjevanja:

Seminarska naloga in predstavitev

Delež (v %) /

Weight (in %)

Assessment:

Seminar essay and presentation

Reference nosilca / Lecturer's references:

- DEVETAK, Dušan, NOVAK, Tone, JANŽEKovič, Franc. Effect of substrate density on behaviour of antlion larvae (Neuroptera: Myrmeleontidae). *Acta oecologica*. [Print ed.], 2012, vol. 43, str. 1-7. [COBISS.SI-ID [19210248](#)]
- 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](#)]
- LIPOVŠEK DELAKORDA, Saška, LETOFSKY-PAPST, Ilse, HOFER, Ferdinand, LEITINGER, Gerd, DEVETAK, Dušan. The evidence on the degradation processes in the midgut epithelial cells of the larval antlion *Euroleon nostras* (Geoffroy in Fourcroy, 1785) (Myrmeleontidae, Neuroptera). *Micron* (1993). [Print ed.], 2012, vol. 43, iss. 5, str. 651-665, ilustr., doi: [10.1016/j.micron.2011.11.012](#). [COBISS.SI-ID [18855176](#)]
- LIPOVŠEK DELAKORDA, Saška, LETOFSKY-PAPST, Ilse, HOFER, Ferdinand, PABST, Maria Anna, DEVETAK, Dušan. Application of analytical electron microscopic methods to investigate the function of spherites in the midgut of the larval antlion *Euroleon nostras* (Neuroptera: Myrmeleontidae). *Microsc. res. tech. (Print)*, 2012, vol. 75, iss. 4, str. 397-407, ilustr., doi: [10.1002/jemt.21069](#). [COBISS.SI-ID [18638856](#)]
- DEVETAK, Dušan, LIPOVŠEK DELAKORDA, Saška, PABST, Maria Anna. Larval morphology of the antlion *Neuroleon microstenus* (McLachlan, 1898) (Neuroptera, Myrmeleontidae), with notes on larval biology. *Zootaxa (Print)*, 2010, 2428, str. 55-63, ilustr. <http://www.mapress.com/zootaxa/2010/f/zt02428p063.pdf>. [COBISS.SI-ID [17543944](#)]