



Univerza v Mariboru

Fakulteta za naravoslovje  
in matematiko

**UČNI NAČRT PREDMETA / COURSE SYLLABUS**

<b>Predmet:</b>	<b>Biodiverzitetni vzorci in procesi</b>
<b>Course title:</b>	<b>Biodiversity patterns and processes</b>

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**

**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:**

<b>Jeziki / Languages:</b>	<b>Predavanja / Lectures:</b>	slovenski / slovene
	<b>Vaje / Tutorial:</b>	slovenski / slovene

<b>Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:</b>	<b>Prerequisites:</b>
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**Vsebina:**  
 Obravnavana so izbrana poglavja iz naslednjih sklopov.  
  
 Razprava o biodiverziteti v globalnem merilu: temelji ekološkega in evolucijskega ozadja. Abundanca, redkosti in izumrtje. Izguba habitatov, njihova degradacija in fragmentacija.  
 Konvencija o biodiverziteti in CITES

**Content (Syllabus outline):**  
 Selected topics in the following chapters are discussed.  
  
 Discussion on biodiversity on global scale: ecological and evolution background. Abundance, rarity, extinctions. Habitat loss, their degradation and fragmentation.  
 Convention on biological diversity and CITES.

**Temeljni literatura in viri / Readings:**

Kryštufek B., 1999. Osnove varstvene biologije. TZS. Ljubljana.  
 Dobson A.P., 1998. Conservation and Biodiversity. W.H. Freeman.  
 Rosenzweig M.L., 2002. Species diversity in space and time. Cambridge University Press. Cambridge.  
 Legendre P., Legendre L., 2012. Numerical Ecology. Elsevier. Amsterdam.

**Cilji in kompetence:**

Podrobno razumejo izbrane ekološke in evolucijske vsebine biodiverzitete.  
 Podrobno se seznanijo z naravnimi (abundanca, redkosti, izumrtje) in antropogenimi (izguba, degradacija, fragmentacija habitatov, globalne klimatske spremembe) gonilnimi silami biodiverzitete.

**Objectives and competences:**

Advanced knowledge about selected ecological and evolutionary chapters of biodiversity.  
 Advanced knowledge of natural (abundance, rarity, extinction) and anthropogenic (habitat loss, degradation, fragmentation, global climate change) driving forces of biodiversity.

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

Poglobljeno razumevanje naravne in antropogene gonilne sile biodiverzitete.

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

Študentje usvojijo kreativno znanje o globalnih vzorcih in procesih biodiverzitete.  
 Skozi poznavanje mednarodnih konvencij so študentje sposobni kreativno sodelovati v študijah in voditi študije o biodiverziteti na različnih nivojih.

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

Advanced understanding knowledge about natural and anthropogenic driving forces of biodiversity.

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

Students capture creative knowledge about global biodiversity patterns and processes.  
 On the basis of knowledge of international biodiversity convention, students are capable to creatively take part in and to conduct biodiversity studies on different levels.

**Metode poučevanja in učenja:**

Predavanja  
 Seminar

**Learning and teaching methods:**

Lecture  
 Seminar

**Načini ocenjevanja:**

Seminarska naloga  
 Ustni izpit

Delež (v %) /

Weight (in %)

**Assessment:**

Seminarska naloga	50	Seminar essay
Ustni izpit	50	Oral exam

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

DEVETAK, Dušan, KLOKOČOVNIK, Vesna, RAUSCH, Hubert, **JANŽEKVIČ, Franc**. Fauna of the Neuropterida (Raphidioptera, Neuroptera) of the Protected area Jasen, Macedonia : a summer flash. *Turkish journal of zoology*, ISSN 1300-0179, 2014, str. 1-13, ilustr. <http://journals.tubitak.gov.tr/havuz/zoo-1305-43.pdf>, doi: [10.3906/zoo-1305-43](https://doi.org/10.3906/zoo-1305-43). [COBISS.SI-ID [20717576](https://www.cobiss.si/record/20717576)]

NOVAK, Tone, **JANŽEKVIČ, Franc**, LIPOVŠEK DELAKORDA, Saška. Contribution of non-troglobiotic terrestrial invertebrates to carbon input in hypogean habitats = Prispevek prezimujočih netroglobiontskih kopenskih nevretenčarjev k vnosu ogljika v podzemeljske habitate. *Acta carsologica*, ISSN 0583-6050, 2013, letn. 42, št. 2/3, str. 301-309, tabele. <http://ojs.zrc-sazu.si/carsologica/article/view/669/600>, doi: [10.3986/ac.v42i2-3.669](https://doi.org/10.3986/ac.v42i2-3.669). [COBISS.SI-ID [20238600](https://www.cobiss.si/record/20238600)]

NOVAK, Tone, PERC, Matjaž, LIPOVŠEK DELAKORDA, Saška, **JANŽEKVIČ, Franc**. Duality of terrestrial subterranean fauna. *International journal of speleology*, ISSN 0392-6672, 2012, vol. 41, no. 2, str. 181-188, doi: [10.5038/1827-806X.41.2.5](https://doi.org/10.5038/1827-806X.41.2.5). [COBISS.SI-ID [19061512](https://www.cobiss.si/record/19061512)]

NOVAK, Tone, TKAVC, Tina, KUNTNER, Matjaž, ARNETT, Amy E., LIPOVŠEK DELAKORDA, Saška, PERC, Matjaž, **JANŽEKVIČ, Franc**. Niche partitioning in orbweaving spiders *Meta menardi* and *Metellina merianae* (Tetragnathidae). *Acta oecologica*, ISSN 1146-609X. [Print ed.], 2010, vol. 36, iss. 6, str. 522-529, ilustr., doi: [10.1016/j.actao.2010.07.005](https://doi.org/10.1016/j.actao.2010.07.005). [COBISS.SI-ID [17865992](https://www.cobiss.si/record/17865992)]