



Univerza v Mariboru

Fakulteta za naravoslovje  
in matematiko

### UČNI NAČRT PREDMETA / COURSE SYLLABUS

<b>Predmet:</b>	Magistrski seminar
<b>Course title:</b>	Master of science seminar

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Biologija in ekologija z naravovarstvom	/	2	Poletni
Biology and Ecology with Nature Conservation	/	2	Summer

Vrsta predmeta / Course type

Univerzitetna koda predmeta / University course code:

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje work	Druge oblike študija	Samost. delo Individ. work	ECTS
	45				135	180/6

Nosilec predmeta / Lecturer:

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

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

Soglasje mentorja magistrskega dela.

Prerequisites:

Consent of supervisor of the master thesis.

**Vsebina:**

Temeljni cilj predmeta je izdelava dispozicije magistrske naloge. Študent si pred pristopom k predmetu pridobi soglasje mentorja s katerim opredelita področje in okvirno temo magistrskega dela. Študent se nato v vodenem procesu seznanja s postopki:

- oblikovanje raziskovalnih vprašanj in zastavitve hipotez;
- iskanje, pridobitev in kritično branje virov;
- izbor in uporabo ustreznih metod za pridobivanje rezultatov ter opredelitve omejitev izbrane metode;
- načrtovanje raziskovalnega dela;
- analiza rezultatov z ustreznimi statističnimi metodami in njihova interpretacija;
- diskusija, umestitev raziskave v kontekst že publiciranih del;
- javna predstavitev načrta raziskovalnega dela;
- pisna priprava dispozicije magistrskega dela.

**Content (Syllabus outline):**

Basic goal of the subject is to prepare proposals of the master thesis. A student should beforehand find a consent of a supervisor of a Master thesis about research field and content of a thesis.

Student should in guided process gain knowledge about:

- Formation of research questions and hypotheses;
- Finding, acquisition, and critical reading of literature;
- Choosing and usage of appropriate methods for data acquisition and recognition of potential weaknesses of chosen methods;
- Planning of his/her research work;
- Statistical analysis of results and their interpretation;
- Discussion and placing of proposed work in a context of already published materials;
- Public presentation of planned research;
- Written preparation of a disposition of Master thesis.

**Temeljni literatura in viri / Readings:**

Tonette S., Rocco and Tim Hatcher (edit.). 2011. The handbook of scholarly writing and publishing. San Francisco. Jossey-Bass a Wiley Imprint cop.

Glasman-Deal H. 2010. Science research writing for non-native speakers of English. London. Imperial College Press cop.

Winstanley C. 2010. Writing a dissertation for dummies. Chichester. Wiley.

Jay Katz M. 2009. From research to manuscript: a guide to scientific writing. Springer.

Knjige in članki s posameznega specifičnega področja: v skladu s temo jih predlaga mentor posameznega magistrskega dela

**Cilji in kompetence:****Objectives and competences:**

Po opravljenem kursu bo študent-ka sposoben:

- ovrednotiti raziskovalni problem;
- izbrati kazalnike za presojo raziskovalnega problema;
- presoditi in ovrednotiti tuje rešitve raziskovalnega problema;
- pripraviti načrt raziskovalnega dela;
- predstaviti problem drugim;
- napisati dispozicijo raziskovalnega dela.

After the course, a student should be able to:

- evaluate research problem;
- choose benchmarks for evaluation of a research problem;
- assess proposed solutions to a research problem;
- prepare plan for his/her research;
- present problem to the others;
- write a disposition of research work.

**Predvideni študijski rezultati:**

Znanje in razumevanje:

- načrtovanja, izvedbe in ovrednotenja raziskovalnega dela.

**Intended learning outcomes:**

Knowledge and understanding:

- planning, performance and evaluation of research work.

**Metode poučevanja in učenja:**

Seminarji

**Learning and teaching methods:**

Seminar

Delež (v %) /

**Načini ocenjevanja:**

Weight (in %)

**Assessment:**

Javna predstavitev zasnove magistrske naloge.	<b>50</b>	Public presentation of proposals of a Master Thesis.
Izdelana in oddana dispozicija seminarske naloge	<b>50</b>	Prepared and submitted written disposition of a Master Thesis

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

1. MASON, Norman W. H., PIPENBAHER, Nataša, ŠKORNIK, Sonja, KALIGARIČ, Mitja. Does complementarity in leaf phenology and inclination promote co-existence in a species-rich meadow? : evidence from functional groups. *Journal of vegetation science : official organ of the International Association for Vegetation Science (IAVS)*, ISSN 1100-9233. [Print ed.], Jan. 2013, vol. 24, iss. 1, str. 94-100, ilustr. <http://onlinelibrary.wiley.com.ezproxy.lib.ukm.si/doi/10.1111/j.1654-1103.2012.01451.x/pdf>, doi: [10.1111/j.1654-1103.2012.01451.x](https://doi.org/10.1111/j.1654-1103.2012.01451.x). [COBISS.SI-ID 19304968], [JCR, SNIP]

2. BATALHA, Marco Antônio, PIPENBAHER, Nataša, BAKAN, Branko, KALIGARIČ, Mitja, ŠKORNIK, Sonja. Assessing community assembly along a successional gradient in the North Adriatic Karst with functional and phylogenetic

distances. *Oecologia : in cooperation with the International association for ecology (Intecol)*, ISSN 0029-8549, 2015, vol. 178, iss. 4, str. 1205-1214, doi: [10.1007/s00442-015-3295-5](https://doi.org/10.1007/s00442-015-3295-5). [COBISS.SI-ID [21281800](#)], [JCR, SNIP]

3. PIPENBAHER, Nataša, MOELLER LANGE, Peter, DOLINŠEK, Jan, JAKOBSEN, Mogens, WEINGARTL, Hana, CENCIČ, Avreljja. Nitric oxide (NO) production in mammalian non-tumorigenic epithelial cells of the small intestine and macrophages induced by individual strains of lactobacilli and bifidobacteria. *International dairy journal*, ISSN 0958-6946. [Print ed.], 2009, vol. 19, iss. 3, str. 166-171. <http://dx.doi.org/doi:10.1016/j.idairyj.2008.09.003>, doi: [doi:10.1016/j.idairyj.2008.09.003](https://doi.org/10.1016/j.idairyj.2008.09.003). [COBISS.SI-ID [2717740](#)], [JCR, SNIP]

4. PIPENBAHER, Nataša, KALIGARIČ, Mitja, MASON, Norman W. H., ŠKORNIK, Sonja. Dry calcareous grasslands from two neighboring biogeographic regions: relationship between plant traits and rarity. *Biodiversity and conservation*, ISSN 0960-3115, 2013, vol. 22, iss. 10, str. 2207-2221, doi: [10.1007/s10531-013-0520-6](https://doi.org/10.1007/s10531-013-0520-6). [COBISS.SI-ID [19978504](#)], [JCR, SNIP]

5. PIPENBAHER, Nataša, ŠKORNIK, Sonja, CARVALHO, Gustavo Henrique de, BATALHA, Marco Antônio. Phylogenetic and functional relationships in pastures and meadows from the North Adriatic Karst. *Plant ecology : an international journal*, ISSN 1385-0237, 2013, vol. 214, iss. 4, str. 501-519, doi: [10.1007/s11258-013-0185-y](https://doi.org/10.1007/s11258-013-0185-y). [COBISS.SI-ID [19716616](#)], [JCR, SNIP]

6. PIPENBAHER, Nataša, MASON, Norman W. H., ŠKORNIK, Sonja. Floristic and functional diversity of meadows from two neighboring biogeographic regions. *Annales : anali za istrske in mediteranske študije, Series historia naturalis*, ISSN 1408-533X, 2014, letn. 24, št. 1, str. 49-60, ilustr. <http://zdj.si/sl/docs/annales/naturalis/n24-1/pipenbaher-mason-skornik.pdf>. [COBISS.SI-ID [1536839364](#)], [SNIP]

7. ŠORGO, Andrej, PIPENBAHER, Nataša, ŠIMIČ ŠAŠIČ, Slavica, PROKOP, Pavol, KUBIATKO, Milan, GOLOB, Nika, ERDOGAN, Mehmet, TOMAŽIČ, Iztok, BILÉK, Martin, FANČOVIČOVA, Jana, LAMANAUSKAS, Vincentas, USAK, Muhammet. Cross national study on pre-service elementary and science teachers' opinions on science teaching. *Eurasia journal of mathematics, science and technology education*, ISSN 1305-8223, 2015, vol. 11, iss. 4, str. 713-723. <http://www.ejmste.com/ms.aspx?kimlik=10.12973/eurasia.2015.1379a>, doi: [10.12973/eurasia.2015.1379a](https://doi.org/10.12973/eurasia.2015.1379a). [COBISS.SI-ID [3529295](#)], [JCR, SNIP]

8. PIPENBAHER, Nataša, KALIGARIČ, Mitja, ŠKORNIK, Sonja. Floristic and functional comparison of karst pastures and karst meadows from the North Adriatic karst = Floristična in funkcionalna primerjava kraških pašnikov in kraških travnikov severnojadranskega Krasa. *Acta carsologica*, ISSN 0583-6050. [Tiskana izd.], 2011, letn. 40, št. 3, str. 515-525, ilustr. <http://carsologica.zrc-sazu.si/downloads/403/Pipenbaher.pdf>. [COBISS.SI-ID [18878216](#)], [JCR, SNIP]

9. PAUŠIČ, Igor, IVAJNŠIČ, Danijel, KALIGARIČ, Mitja, PIPENBAHER, Nataša. Relation between plant species diversity and landscape variables in Central-European dry grassland fragments and their successional derivatives. *Acta botanica Croatica : an international journal of botany*, ISSN 0365-0588, 2017, vol. 76, iss. 2, str. 111-119, ilustr. <https://www.degruyter.com/view/j/botcro.ahead-of-print/botcro-2017-0001/botcro-2017-0001.xml?format=INT>, doi: [10.1515/botcro-2017-0001](https://doi.org/10.1515/botcro-2017-0001). [COBISS.SI-ID [23132168](#)], [JCR, SNIP]

10. PIPENBAHER, Nataša, KALIGARIČ, Mitja, ŠKORNIK, Sonja. Functional comparison of the sub-Mediterranean illyrian meadows from two distinctive geological substrates = Confronto funzionale di praterie sub-mediterranee illiriche di due substrati geologici distinti = Funkcionalna primerjava submediteranskih ilirskih travnikov z dveh različnih geoloških podlag. *Annales : anali za istrske in mediteranske študije, Series historia naturalis*, ISSN 1408-533X, 2008, letn. 18, št. 2, str. 247-258. [COBISS.SI-ID [16601352](#)]