



Univerza v Mariboru

Fakulteta za naravoslovje
in matematiko

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Doktorska disertacija
Course title:	Doctoral Dissertation

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Doktorski študij Ekološke znanosti, 3. stopnja		4.; 4th	8.; 8th
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	Konzultacije Consult.	Samost. delo Individ. work	ECTS
				30	870	30

Nosilec predmeta / Lecturer:

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

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

Uspešno opravljene obveznosti v programu.
Prijava doktorske disertacije, opravljena v skladu s pravilnikom visokošolskega zavoda.

Prerequisites:

Students have to fulfill all requirements from the program and declare their doctoral dissertation according to the faculty prescribed regulations.

Vsebina:

Content (Syllabus outline):

Izdelava doktorske disertacije z naslednjo okvirno vsebino:

- Povzetek doktorske disertacije v slovenskem in angleškem jeziku in ključne besede, MSC klasifikacija in ključne besede
- Pregled vsebine - kazalo
- Pregled slik - kazalo
- Pregled tabel - kazalo
- Pregled prilog - kazalo
- Uvod
- Material in metode
- Rezultati
- Diskusija
- Povzetek
- Literatura in viri
- Priloge (po potrebi)
- Pojmovnik (po potrebi)
- Kratice in akronimi (po potrebi)
- Delovni življenjepis kandidata
- Izjava kandidata o avtorstvu doktorske disertacije

Doctoral thesis with the following structure:

- Abstract of the PhD degree's work in Slovene and English and key words
- Review of the subject – index
- Review of figures – index
- Review of the tables – index
- Review of the supplements – index
- Introduction
- Material and methods
- Results
- Discussion
- Summary
- Literature and sources
- Supplements (if needed)
- Glossary (if needed)
- Abbreviations and acronyms (if needed)
- Biography of the candidate
- Statement of the candidate about his authorship of the PhD degree's work

Temeljni literatura in viri / Readings:

Tekoča znanstvena in strokovna periodika s področja, na katerem študent izbere temo svoje doktorske disertacije.

Gauch, Hugh G. *Scientific method in practice*. Cambridge University Press, 2003.

Lesk A.M. 2014. *Introduction to Bioinformatics*. Oxford University Press, Oxford, United Kingdom, 400 str.

Devetak, D., T. Novak, B. Cagran, M. Pšunder, 2003: Navodila in priporočila za izdelavo strokovnih pisnih izdelkov s področja biologije. Maribor: Pedagoška fakulteta, 23 str.

Katz, M. J., 2007: *From research to manuscript. A guide to scientific writing*. Springer, 152 str.

Cilji in kompetence:

Doktorska disertacija je pisni dokument, s katerim študent dokaže vrhunsko sposobnost uporabe teoretičnih znanj in v praksi pridobljenih izkušenj za rešitev problema, ki si ga je izbral s prijavo teme doktorskega dela. V doktorski disertaciji študent pokaže sposobnost izbire in uporabe metod dela v ekologiji ali biologiji in uporabe domače ter tuje strokovne literature in dodatnih virov za

Objectives and competences:

The doctoral thesis (Ph.D. degree's work) is a written document by means of which the student proves his top-level ability to use the theoretical knowledge and in his experiences achieved in practical work resolving a problem chosen by applying for a theme of his Ph.D. degree's work. In his doctoral thesis the student presents the ability to choose and use appropriate methods in ecology and literature

potrebe rešitve izbranega problema.

and additional sources in order to solve the chosen problem.

Predvideni študijski rezultati:

Intended learning outcomes:

Znanje in razumevanje:

Znanje širšega strokovnega področja, v katerega spada tema doktorske disertacije in ožje znanje ter vrhunsko razumevanje strokovnih pojmov in kreiranje novih pojmov za celovit prikaz doktorskega dela. Poudarek je na vrhunskih teoretičnih in praktičnih znanjih ter vrhunski aplikaciji in priredbah metodologij zajemanja, obdelovanja in prikazovanja podatkov.

Prenesljive/ključne spretnosti in drugi atributi:

Vrhunsko strokovno zapisovanje in izražanje vsebine, obvladanje reševanja znanstvenih problemov, suverena predstavitev ključnih spoznanj in spretnost argumentiranja

Metode poučevanja in učenja:

Knowledge and understanding:

Knowledge of the broader professional field to which belongs the Ph.D. degree's work, and special knowledge of the glossary concerned by the degree's work theme as well as the creation of new conceptions. The emphasis is on the top-level theoretical and practical skills in using and adjustment of methods of collecting, processing and presenting data.

Transferable/Key Skills and other attributes:

Documenting and expressing the subject in a professional way, mastering the solving of the scientific problems, independent presentation of the key conclusions and ability in arguing

Learning and teaching methods:

Samostojno delo.

Mentor na konsultacijah preverja vsebinski in strukturni vidik disertacije ter usmerja kandidata pri predstavitvi disertacije

Individual work.

The supervisor checks and verifies the thematic and structural aspect of the dissertation in consultations. He directs the student in preparation of an appropriate presentation of his dissertation and to the most probable questions with respect to the commission of defence

Delež (v %) /

Načini ocenjevanja:

Weight (in %) **Assessment:**

- Doktorska disertacija
- Zagovor

75 %
25 %

- Doctoral (PhD) Thesis
- Presentation/defence

Reference nosilca / Lecturer's references:

Reference habilitiranih nosilcev predmetov v programu / References of lecturers listed in the program