



Univerza v Mariboru

Fakulteta za naravoslovje
in matematiko

UČNI NAČRT PREDMETA / SUBJECT SPECIFICATION

Predmet: Doktorska disertacija
Subject Title: Doctoral Dissertation

Študijski program Study programme	Študijska smer Study field	Letnik Year	Semester Semester
Tehnika – področje izobraževanja, 3. stopnja		4	letni
Education in Engineering, 3 rd cycle		4	summer

Univerzitetna koda predmeta / University subject code:

Predavanja Lectures	Seminar Seminar	Sem. vaje Sem. work	Lab. vaje Lab. work	Mentorske ure Tutorial	Samost. delo Individ. work	ECTS
				30	870	30

Nosilec predmeta / Lecturer: Vsi habilitirani nosilci predmetov v programu / All Lecturers

Jeziki / Predavanja / Lecture: /
Languages: Vaje / Tutorial: /

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

Končano individualno raziskovalno delo IV

Vsebina:

1. Ovitek
2. Notranja naslovna stran
3. Izjava kandidata o avtorstvu doktorske disertacije
4. Zahvala
5. Izvleček doktorske disertacije v slovenskem in angleškem jeziku in ključne besede
6. Pregled vsebine - kazalo
7. Pregled slik - kazalo
8. Pregled tabel - kazalo
9. Pregled prilog - kazalo
10. Uvod
11. Material in metode
12. Rezultati
13. Diskusija
14. Povzetek
15. Literatura in viri
16. Priloge (po potrebi)
17. Pojmovnik (po potrebi)
18. Kratice in akronimi (po potrebi)

Pred zagovorom doktorske disertacije študent pripravi in objavi (oziroma pridobi potrdilo o sprejetju v tisk) v reviji, indeksirani v SCI, v celoti ali delno znanstvena spoznanja iz svoje doktorske disertacije, pri čemer mora biti prvi ali vodilni avtor.

Prerequisites:

Finished Individual Research Work IV

Contents (Syllabus outline):

1. Cover
2. Inside title page
3. Statement of the candidate about his authorship of the PhD degree's work
4. Acknowledgement
5. Abstract of the PhD degree's work in Slovene and English and key words
6. Review of the subject – index
7. Review of figures – index
8. Review of the tables – index
9. Review of the supplements – index
10. Introduction
11. Material and methods
12. Results
13. Discussion
14. Summary
15. Literature and sources
16. Supplements (if needed)
17. Glossary (if needed)
18. Abbreviations and acronyms (if needed)

Before the defense of the doctoral dissertation, the student prepares and publishes (or provides the confirmation about the acceptance) in a journal, indexed in the SCI Basis, the total or a part of his/her scientific findings from his/her doctoral dissertation,

	where he/she must be the first or the leading author.
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Temeljni študijski viri / Textbooks:

Aberšek, B., Borstner, B., Bregant, J. Virtual teacher : cognitive approach to e-learning material. Newcastle upon tyne: cambridge scholars publishing, 2014
 Aberšek, B., Tehnologija sporazumevanja, Fakulteta za strojništvo, Maribor, 2005
 Katz, M. J., 2007: From research to manuscript. A guide to scientific writing. Springer
 Meloy, J. M.: Writing the qualitative dissertation : understanding by doing, Mahwah (New Jersey), London : L. Erlbaum, Associates, cop. 2002.

Cilji:

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 in uporabe domače ter tuje strokovne literature in dodatnih virov za potrebe rešitve izbranega problema.

Objectives:

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 and additional sources in order to solve the chosen problem.

Predvideni študijski rezultati: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

Intended learning outcomes: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

Metode poučevanja in učenja:

Mentor

- Na konzultacijah preverja vsebinski in strukturni vidik disertacije;
- Usmerja kandidata pri predstavitvi disertacije in na verjetna okvirna vprašanja pri zagovoru.

Learning and teaching methods:

The supervisor:

- Checks and verifies the thematic and structural aspect of the dissertation in consultations;
- Directs the student in preparation of an appropriate presentation of his dissertation and to the most probable questions with respect to the commission of defense.

Načini ocenjevanja:Delež (v %) /
Weight (in %)**Assessment:**

<ul style="list-style-type: none"> • Doktorska disertacija • Zagovor Se oceni: opravljen / ni opravljen	75 % 25 %	<ul style="list-style-type: none"> • Doctoral (PhD) Thesis • Presentation Evaluate: passed / not passed.
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Materialni pogoji za izvedbo predmeta :

- Seminarska soba z osnovnimi audiovizualnimi pripomočki.

Material conditions for subject realization

- Study room with the multimedia equipment

Obveznosti študentov:*(pisni, ustni izpit, naloge, projekti)*

Izdelava doktorske disertacije;
 Izdelava in objava članka v reviji SCI;
 Zagovor pred komisijo.

Students' commitments:*(written, oral examination, coursework, projects):*

Production of the Doctoral (PhD) dissertation;
 Production and publishing of a publication in a SCI journal;

	Its defense in the presence of the boar of examiners.
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