



Univerza v Mariboru

Fakulteta za naravoslovje
in matematiko

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Izdelava in zagovor doktorske disertacije
Course title:	Preparation and Defence of the Doctoral Dissertation

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Matematika, 3. stopnja		4.	8.
Mathematics, 3 rd cycle		4 th	8 th

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
				30 (konzultacije)	870	30

Nosilec predmeta / Lecturer:

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

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

- Študent ima uspešno opravljene vse obveznosti programa in je prijava doktorske disertacije opravljena v skladu s pravilnikom visokošolskega zavoda.
- Študent izpolnjuje pogoje za zagovor doktorske disertacije, ki so zapisani v merilih doktorske šole UM. Pri tem prvo avtorstvo pri članku pomeni:
 - članek z največ enim soavtorjem,
 - članek v soavtorstvu z mentorjem in somentorjem.

Prerequisites:

- Students have to fulfill all requirements from the program and declare their PhD thesis according to the faculty prescribed regulations.
- Students have to fulfill all conditions for the defence of the PhD thesis determined by the Doctoral School UM. The author is considered as the first author if the paper is co-authored by:
 - at most one co-author,
 - advisor and co-advisor.

Vsebina:

Izdelava doktorske disertacije z naslednjo okvirno vsebino:

- Povzetek doktorskega dela v slovenskem in tujem (angleškem, francoskem ali nemškem) jeziku, MSC klasifikacija in ključne besede
- Kazalo vsebine, slik, tabel in prilog
- Uvod
- Teoretične osnove dela
- Praktični (problemski) del doktorskega dela
- Prispevek doktorskega dela k stroki
- Zaključek
- Literatura in viri navedeni v standardni obliki
- Priloge

Content (Syllabus outline):

Student works out the doctoral thesis with the following rough structure:

- Summary of the PhD degree work in Slovene and in a foreign (English, French or German) language, MSC classification and key words
- Table of contents, figures, tables, supplements
- Introduction
- Theoretical foundations of the work
- Practical part of the work – related problems
- Contribution of the PhD work to the related field
- Conclusion
- References and sources cited in a standard form
- Supplements

Temeljni literatura in viri / Readings:

- Tekoča znanstvena in strokovna periodika s področja, na katerem študent izbere temo svoje doktorske disertacije.
- Current scientific and professional periodics in the area of candidate's PhD thesis.

Cilji in kompetence:

- Doktorska disertacija je pisni dokument, s katerim študent dokaže sposobnost uporabe teoretičnih in raziskovalnih znanj ter pridobljenih izkušenj pri reševanju znanstvenoraziskovalnih vprašanj v okviru prijavljene teme doktorske disertacije.
- Je izvorno znanstvenoraziskovalno delo, ki predstavlja prispevek k znanosti, s katerim študent dokaže poznavanje znanstvenega področja disertacije.

Objectives and competences:

- Doctoral dissertation is written document that proves student ability to use theoretical and research knowledge combined with practical experience in solving scientific research problems that are covered by his/her thesis application.
- Is an original scientific research work that presents a contribution to the science that proves student knowledge and expertise with the field of his/her dissertation.

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

Po zaključku študija, bo študent :

- pridobil zahtevane kompetence, ki mu bodo omogočale reševanje najzahtevnejših znanstvenih problemov,
- pridobil pregled čez širše znanstveno področje njegove disertacije,
- obvladal znanja ožjega področja njegove disertacije

Prenesljive/ključne spretnosti in drugi atributi:

Obvladanje dokumentiranja in prezentacije znanstvenih izsledkov, obvladanje reševanja znanstvenih problemov, suverenost v predstavitev ključnih spoznanj in spretnost argumentiranja.

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

At completion of the studies student will:

- gain prescribed competences that will allow him/her solving of the most complex scientific problems,
- obtain overview over broad scientific field of his/her dissertation,
- master in depth knowledge that relates to narrow spectrum of his dissertation field

Transferable/Key Skills and other attributes:

Proficiency in documenting and presenting the scientific results, proficiency in solving scientific problems, sovereignty in presentations and discussions about the results of research.

Metode poučevanja in učenja:

- mentor na konzultacijah preverja vsebinski in strukturni vidik naloge
- mentor pripravi kandidata na predstavitev doktorskega dela in na verjetna okvirna vprašanja pri zagovoru

Learning and teaching methods:

- the content and the structural aspect of the work is monitored by the tutor during the consultations
- mentor prepares the candidate to clearly present his/her dissertation thesis and to be able to answer the most obvious questions during the defence of the candidates PhD dissertation.

Načini ocenjevanja:

Način (pisni izpit, ustno izpraševanje, naloge, projekt):

- doktorska disertacija
- njena predstavitev

Se oceni: opravlil / ni opravlil.

Delež (v %) /

Weight (in %) **Assessment:**

Type (examination, oral, coursework, project):

- PhD thesis
- the presentation of the work.

Evaluate: passed / not passed.

80 %

20 %

Reference nosilca / Lecturer's references:

Habilitirani nosilci predmetov v programu / Teachers listed in the program