

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Individualno raziskovalno delo 1
Course title:	Individual Research Work 1

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Matematika, 3. stopnja		1.	1.
Mathematics, 3rd cycle		1st	1st

Vrsta predmeta / Course type	obvezni/compulsory
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Univerzitetna koda predmeta / University course code:	
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Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje work	Druge oblike študija	Samost. delo Individ. work	ECTS
					540	18

Nosilec predmeta / Lecturer:	Habilitirani nosilci predmetov v programu / Teachers listed in the program
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Jeziki / Languages:	Predavanja / Lectures: Slovenski jezik; Slovene
	Vaje / Tutorial: Slovenski jezik; Slovene

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

Ni posebnih pogojev.	No special requirements.
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Vsebina:

Individualno raziskovalno delo 1 je namenjeno teoretičnim in praktičnim pripravam študenta na raziskovalno delo, ki zajema:

- študij relevantnih virov in iskanje literature po različnih podatkovnih zbirkah,
- konzultacije z mentorjem in izbira širše tematike raziskovalnega dela.

Content (Syllabus outline):

The Individual research work 1 is intended to theoretical and practical preparations for research work that consist of:

- study of relevant sources and searching for the literature in different databases
- consultation with mentor and selection of the topics of research work.

Temeljni literatura in viri / Readings:

- Kandiller, L. Principles of mathematics in operations research, Berlin: Springer-Verlag 2007.
- Makarovič, J. Misel in sporocilo: Kako uspešno študirati, raziskovati in predstaviti svoje ideje. Ljubljana: DDU Univerzum.
- Toporišič, J. (ur.). Slovenski pravopis. Pravila. Ljubljana: SAZU, DZS
- Gill, J. Essential mathematics for political and social research, Cambridge: Cambridge University Press, 2006
- Mackiw, G. Applications of abstract algebra, New York: John Wiley & Sons
- Literatura glede na izbrano temo

Cilji in kompetence:

- pripraviti študente za bodoče delo na doktorski disertaciji, pri katerem naj bi študent dokazal sposobnost uporabe teoretičnih znanj in v praksi pridobljenih izkušenj za rešitev problema, ki si ga bo izbral ob prijavi teme doktorskega dela.
- študent se usposobi za izbiro in uporabo domače ter tuje strokovne literature na svojem področju dela in dodatnih virov, potrebnih za rešitev zastavljenega problema.

Objectives and competences:

- to prepare students for their future independent work on the PhD thesis, during which they should demonstrate the ability to use theoretical knowledge and their practical experiences to solve a problem, selected for their doctoral thesis
- students acquaintain the ability to select and use national and international scientific journals and monographies in their area of research as well as to find additional sources necessary to solve the choosen problem

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

- poznавanje širšega strokovnega področja, na katero bo sodila bodoča doktorska disertacija,
- formiranje specifičnega znanje ter razumevanje pojmovnika predvidenega doktorskega dela,
- sposobnost oblikovati koncept doktorske naloge ter metodološke pristope za zajemanje, obdelovanje in prikazovanje podatkov.

Prenesljive/ključne spremnosti in drugi atributi:

- strokovno zapisovanje in izražanje matematičnih vsebin
- obvladanje reševanja strokovnih problemov
- suvereno predstavljanje ključnih spoznanj in spremnost argumentiranja

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

- the knowledge of the wider mathematical field to which the dissertation will belong,
- the development of special knowledge and working out the dictionary (notation) for the subject of the future doctoral thesis,
- the abbility to formulate the topic of the investigation and methodological approaches to collection, analysis and presentation of data.

Transferable/Key Skills and other attributes:

- expressing mathematical contents in oral and written form
- ability to solve specific mathematical problems clear presentation of the results of research work and efficient argumentation

Metode poučevanja in učenja:

- konzultacije;
- samostojni študij.

Learning and teaching methods:

- consultations;
- self-study.

Delež (v %) /

Weight (in %)

Assessment:

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

- Ustni zagovor.
- Pisno poročilo.

Se oceni: opravil / ni opravil

30 %**70 %**

Type (examination, oral, coursework, project):

- Oral exam.
- Written report.

Evaluate: passed / not passed.

Reference nosilca / Lecturer's references:

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