

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet: Raziskovalni seminar 1
Course title: Research Seminar 1

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Matematika, 3. stopnja		1.	2.
Mathematics, 3 rd cycle		1 st	2 nd

Vrsta predmeta / Course type

obvezni/compulsory

Univerzitetna koda predmeta / University course code:

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje work	Druge oblike študija	Samost. delo Individ. work	ECTS
	10			5 (konzultacije)	75	3

Nosilec predmeta / Lecturer: Habilитirani nosilci predmetov v programu / Teachers listed in the program

Jeziki / Languages:	Predavanja / Lectures: Vaje / Tutorial:	Slovenski jezik; Slovene
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Pogoji za vključitev v delo oz. za opravljanje
študijskih obveznosti:

Ni posebnih pogojev.

No special requirements.

Vsebina:

Študent se podrobneje seznani z metodami samostojnega raziskovalnega dela, potrebnimi za izdelavo doktorske naloge ter na seminarju izmenjuje tovrstne izkušnje z drugimi študenti. Predela določeno splošno in specializirano literaturo ter na njeni podlagi ob posvetovanju s potencialnim mentorjem izbere ožje področje, s katerega bo pripravljal doktorsko disertacijo.

Content (Syllabus outline):

Student studies in details the methods of independent research, necessary for efficient work on his PhD thesis and exchanges his experiences with other students during the seminar. He reads some general and specialized textbooks on this topic and based on them – after consulting his potential supervisor – chooses a narrow field for preparation of his future PhD thesis.

Temeljni literatura in viri / Readings:

- Science and technology research in progress. Mathematics: Academic Media.
- 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

Cilji in kompetence:

- pripraviti študente za bodoče delo na doktorski disertaciji, pri pripravi katere naj bi študent izkazal aktivno poznavanje najnovejših znanstvenih doganj na ožjem matematičnem področju.
- 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 active knowledge of the newest results in a narrow mathematical field.
- 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 chosen problem

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

- poznavanje širšega strokovnega področja, na katero bo sodila bodoča doktorska disertacija
- formiranje specifičnega znanje ter razumevanje pojmovnika predvidenega doktorskega dela
- aktivno obvladovanje metodoloških pristopov za zajemanje, obdelovanje in prikazovanje podatkov

Prenesljive/ključne spretnosti in drugi atributi:

- strokovno zapisovanje in izražanje matematičnih vsebin
- obvladanje reševanja strokovnih problemov

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
- good abbility of 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

- suvereno predstavljanje ključnih spoznanj in spretnost argumentiranja

- clear presentation of the results of research work and efficient argumentation

Metode poučevanja in učenja:

- konzultacije;
- priprava seminarja;
- samostojni študij.

Learning and teaching methods:

- consultations;
- seminar work;
- self-study.

Delež (v %) /

Načini ocenjevanja:

Weight (in %)

Assessment:

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

- seminarsko predavanje;

100 %

Type (examination, oral, coursework, project):

- seminar talk;

Se oceni: opravil / ni opravil.

Evaluate: passed / not passed.

Reference nosilca / Lecturer's references:

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