UČNI NAČRT PREDMETA / COURSE SYLLABUS	
Predmet:	IŠRM seminar
Course title:	Seminar for Computer Science and Mathematics students

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Interdisciplinarni magistrski študijski program Računalništvo in matematika	ni smeri	2	prvi in drugi
Interdisciplinary Masters study programme Computer Science and Mathematics	none	2	first and second

Vrsta predmeta / Course type	obvezni

Univerzitetna koda predmeta / University course code:	M2838

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje work	Druge oblike študija	Samost. delo Individ. work	ECTS
	30				60	3

Nosilec predmeta / Lecturer:	prof. Andrej Bauer

Jeziki / Languages:	Predavanja / Lectures:	slovenski/Slovene, angleški/English
	Vaje / Tutorial:	slovenski/Slovene, angleški/English

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

Vsebina:	Content (Syllabus outline):

Srečanja z vodjo seminarja so namenjena predstavitvam magistrskih del. S predstavitvijo magistrskega dela se študentka ali študent bolj poglobi v izbrano temo in izboljša sposobnost podajanja matematične snovi zahtevnejšemu občinstvu. Hkrati se študentke in študenti pripravijo tudi na končno predstavitev magistrske naloge. Poslušalci podrobneje spoznajo dela drugih študentk in študentov. Vodja seminarja pripravi še nekaj ur predavanj, ki so povezana z izdelavo magistrske naloge ali povabi na seminar druge strokovnjake.

Seminar se tako naravno dopolnjuje z izdelavo magistrskega dela. V okviru predmeta se študenti lahko udeležijo strokovnih srečanj. | At meetings with the seminar organizer, the students present their work towards the Master's theses. By presenting his or her Master's thesis, the student gains a deeper understanding of the subject and improves his or her presentation skills. At the same time the students get prepared for the presentation of their final Master's thesis. The listeners learn more about the work of other students. The seminar organizer also prepares some lectures about making the Master's thesis or invites other specialists.

The seminar naturally complements the Master's thesis. Within the course students can attend professional meetings. |

Temeljni literatura in viri / Readings:

Justin Zobel, Writing for Computer Science, second edition, Springer, 2004.

D. Evans and P. Gruba, How to Write a Better Thesis, Second edition, Melbourne University Press, Melbourne, 2002.

Herman T. : Ethics and Technology: Controversies, Questions, and Strategies for Ethical Computing, Wiley, 3 edition, 2010.

Članki v raziskovalnih revijah in znanstvene monografije, ki jih študentje potrebujejo pri pisanju svojega magistrskega dela.

Cilji in kompetence:

Objectives and competences:

Študent spozna delo drugih študentov in izpopolni sposobnost predstavitve svojega dela.	The student learns more about work done by other students and improves his or her presentation skills.

Predvideni študijski rezultati:

Intended learning outcomes:

Znanje in razumevanje:
Sposobnost predstavitve magistrskega dela in razumevanja del drugih študentov.

Uporaba: | Knowledge and understanding:
Oral presentation of one's work and understanding the work of other students.

Application: |

Priprava učinkovite predstavitve strokovnih vsebin. Refleksija: Seznanitev z deli drugih študentov na drugih področjih. Metodologija učinkovite komunikacije. Prenosljive spretnosti – niso vezane le na en predmet: Učinkovita predstavitev strokovnih vsebin.	Preparation of efficient presentations of technical content. Reflection: Exposure to the work of other students in other. Methods of effective communication. Transferable skills: Efficient presentation of technical content.

Metode poučevanja in učenja:	**Learning and teaching methods:**
Študentske predstavitve magistrskih del, predavanja vodje seminarja ali drugih strokovnjakov.	Student's presentations of Master's theses, lectures of the seminar organizer or other specialists.

Načini ocenjevanja:	Delež (v %) / Weight (in %)	**Assessment:**
aktivne udeležbe na predstavitvah gostov iz gospodarstva in kratka predstavitev teme magistrskega dela v prvem semestru daljša predstavitev teme magistrskega dela v drugem semestru Ocene: opravil/ni opravil	50% 50%	active participation and short presentation of master thesis in the first semester presentatation of main results of master thesis in the second semester Grading: pass/fail

Reference nosilca / Lecturer's references:

Andrej Bauer:

BAUER, Andrej, KAVKLER, Iztok. A constructive theory of continuous domains suitable for

implementation. V: Joint Workshop Domains VIII - Computability over Continuous Data Types, Novosibirsk, September 11-15, 2007, (Annals of pure and applied logic, ISSN 0168-0072, Vol. 159, iss. 3). Amsterdam: Elsevier, 2009, str. 251-267. [COBISS.SI-ID 15329625]

BAUER, Andrej, STONE, Christopher A. RZ: a tool for bringing constructive and computable mathematics closer to programming practice. Journal of logic and computation, ISSN 0955-792X, 2009, vol. 19, no. 1, str. 17-43. [COBISS.SI-ID 15325785]

BAUER, Andrej, TAYLOR, Paul. The Dedekind reals in abstract Stone duality. Mathematical structures in computer science, ISSN 0960-1295, 2009, vol. 19, iss. 4, str. 757-838. [COBISS.SI-ID 15322201]

Zoran Bosnić:

OCEPEK, Uroš, BOSNIĆ, Zoran, NANČOVSKA ŠERBEC, Irena, RUGELJ, Jože. Exploring the relation between learning style models and preferred multimedia types. Computers & Education, ISSN 0360-1315. [Print ed.], Nov. 2013, vol. 69, str. 343-355. [COBISS.SI-ID 10047572]

BOSNIĆ, Zoran, VRAČAR, Petar, RADOVIĆ, Miloš D., DEVEDŽIĆ, Goran, FILIPOVIĆ, Nenad D., KONONENKO, Igor. Mining data from hemodynamic simulations for generating prediction and explanation models. IEEE transactions on information technology in biomedicine, ISSN 1089-7771. [Print ed.], Mar. 2012, vol. 16, no. 2, str. 248-254, ilustr. [COBISS.SI-ID 9026900]

POGORELC, Bogdan, BOSNIĆ, Zoran, GAMS, Matjaž. Automatic recognition of gait-related health problems in the elderly using machine learning. Multimedia tools and applications, ISSN 1380-7501, 2012, vol. 58, no. 2, str. 333-354, graf. prikazi. [COBISS.SI-ID 8773460]