UČNI NAČRT PREDMETA / COURSE SYLLABUS (leto / year 2016/17)			
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 Master's study programme Computer Science and Mathematics	none	2	first and second

Vrsta predmeta / Course type	obvezni / compulsory
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. dr. Andrej Bauer, prof. dr. Zoran Bosnić

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:**
Vpis v letnik študija.	Enrolment in the programme.
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.	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.

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.	Knowledge and understanding: Oral presentation of one's work and understanding the work of other students. Application: Preparation of efficient presentations of

Uporaba: Priprava učinkovitne predstavitve strokovnih vsebin. Refleksija: Seznanitev z deli drugih študentov na drugih področjih. Metodologija učinkovitne komunikacije. Prenosljive spretnosti – niso vezane le na en predmet: Učinkovitna predstavitev strokovnih vsebin.	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:**
Način (domače naloge, seminarska naloga, ustno izpraševanje): 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: 1-5 (negativno), 6-10 (pozitivno) (po Statutu UL)	40% 60%	Type (homework, seminar paper, oral exam, coursework, project): active participation and short presentation of master thesis in the first semester presentatation of main results of master thesis in the second semester Grading: 1-5 (fail), 6-10 (pass) (according to the Statute of UL)

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]