

UČNI NAČRT PREDMETA / COURSE SYLLABUS (leto / year 2016/17)						
Predmet:	Seminar					
Course title:	Seminar					
Študijski program in stopnja Study programme and level	Študijska smer Study field			Letnik Academic year	Semester Semester	
Univerzitetni študijski program Finančna matematika	ni smeri			2	drugi	
First cycle academic study programme Financial Mathematics	none			2	second	
Vrsta predmeta / Course type				obvezni / compulsory		
Univerzitetna koda predmeta / University course code:				M0357		
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. Janez Bernik, prof. dr. Tomaž Košir, doc. dr. Dejan Velušček				
Jeziki / Languages:	Predavanja / Lectures:	slovenski / Slovene				
	Vaje / Tutorial:	slovenski / Slovene				
Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:				Prerequisites:		
Vpis v letnik študija.				Enrolment in the programme.		
Vsebina:				Content (Syllabus outline):		

<p>Vodja seminarja bo pripravil zadostno število krajših samostojnih ali skupinskih tem iz finančne matematike in njene uporabe neposredni praksi in jih skupaj s potrebnim gradivom razdelil med študente. Gradivo mora samo zadoščati za pripravo seminarske naloge, lahko pa študenti sami poiščejo še dodatne vire.</p>	<p>Seminar leader prepares a sufficient number of short individual or group topics from financial mathematics and its applications in practice along with necessary literature. The handouts have to suffice for the preparation of the seminar, however students can look for additional sources.</p>
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Temeljni literatura in viri / Readings:

<p>gradivo, ki ga pripravi vodja seminarja</p>
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Cilji in kompetence:

<p>Predmet je namenjen temu, da se študenti naučijo pripravljati krajše seminarje ali skupinske projektne naloge. V okviru predmeta se bodo na podlagi lastnih izkušenj in opazovanja drugih usposobili za nastopanje pred razredom, izdelovanje preglednih prosojnic ipd. Naučili se bodo, kaj je so pomembno za uspešno predstavitev in uspešno napisano seminarsko nalogo. Predmet je namenjen tudi spoznavanju z neposredno prakso, saj bodo teme vzete iz prakse, k sodelovanju pri organizaciji Seminarja bomo povabili tudi zaposlene iz ustanov in delovnih organizacij iz finančnega sektorja.</p>

Objectives and competences:

<p>The purpose of the course is to teach a student how to prepare a short seminar or a group research project. As a part of the course the students will, based on personal experience and observation of others, acquire the ability to practice before class, make transparent overlays, etc. They will learn what is important for a successful presentation and a seminar work. The course is aimed at getting acquainted with the practice directly, as the themes are taken from practice and employees of institutions and organizations working in the financial sector are invited to collaborate.</p>

Predvideni študijski rezultati:

<p>Znanje in razumevanje: Študent se nauči pripraviti krajšo predstavitev in napisati seminarsko nalogo.</p> <p>Uporaba: Pridobljene izkušnje mu bodo v pomoč v času študija pri drugih predmetih in kasneje v delovnem okolju.</p>

Intended learning outcomes:

<p>Knowledge and understanding: Student learns to prepare a short presentation and to write a seminar paper.</p> <p>Application: Gained experience will be of use during the course of study for other courses and</p>
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Refleksija: Povezovanje pridobljenih spretnosti s strokovnim znanjem.

Prenosljive spretnosti – niso vezane le na en predmet: Pridobljene izkušnje mu bodo v pomoč pri vseh drugih predmetih, ki zahtevajo predstavitev ali izdelavo domače naloge. Izkušnje bodo v pomoč tudi kasneje na delovnem mestu.

later for work.

Reflection: The ability to connect new skills to the expertise.

Transferable skills: Gained experience will be of use during the course of study for other courses that require presentation or homework. Gained experience will be helpful in future employment.

Metode poučevanja in učenja:

Vsak študent pripravi dve predstavitvi, vsaka predstavitev traja eno šolsko uro, od tega bo 30 minut namenjeno predstavitvi, 15 minut pa razpravi. Bolj kot na matematični vsebini bo poudarek na sami izvedbi seminarja in na izdelanem pisnem izdelku. Vsak študent mora napisati še krajšo seminarsko nalogo ali skupinsko projektno nalogo.

Learning and teaching methods:

Each student prepares two presentations in the duration of 45 minutes, where 30 minutes is reserved for the presentation and 15 minutes for a discussion. The emphasis is not on the mathematical subject but rather on the implementation of the presentation and the written product. Each student has to write a short seminar work or a group research project.

Načini ocenjevanja:

Delež (v %) /

Weight (in %)

Assessment:

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

ocene: 1-5 (negativno), 6-10 (pozitivno) (po Statutu UL)

100%

Type (examination, oral, coursework, project):

grading: 1-5 (fail), 6-10 (pass) (according to the Statute of UL)

Reference nosilca / Lecturer's references:

Janez Bernik:

BERNIK, Janez, MARCOUX, Laurent W., RADJAVI, Heydar. Spectral conditions and band reducibility of operators. Journal of the London Mathematical Society, ISSN 0024-6107, 2012, vol. 86, no. 1, str. 214-234. [COBISS.SI-ID 16357721]

BERNIK, Janez, MASTNAK, Mitja, RADJAVI, Heydar. Positivity and matrix semigroups. Linear Algebra and its Applications, ISSN 0024-3795. [Print ed.], 2011, vol. 434, iss. 3, str. 801-812. [COBISS.SI-ID

15745625]

BERNIK, Janez. The eigenvalue field is a splitting field. *Archiv der Mathematik*, ISSN 0003-889X, 2007, vol. 88, no. 6, str. 481-490. [COBISS.SI-ID 14333017]

Tomaž Košir:

KOŠIR, Tomaž, OBLAK, Polona. On pairs of commuting nilpotent matrices. *Transformation groups*, ISSN 1083-4362, 2009, vol. 14, no. 1, str. 175-182. [COBISS.SI-ID 15077977]

CVETKO-VAH, Karin, KOKOL-BUKOVŠEK, Damjana, KOŠIR, Tomaž, KUDRYAVTSEVA, Ganna. Semitransitive subsemigroups of the singular part of the finite symmetric inverse semigroup. *Acta mathematica Hungarica*, ISSN 0236-5294, 2011, vol. 131, no. 1-2, str. 1-24. [COBISS.SI-ID 15842905]

BUCKLEY, Anita, KOŠIR, Tomaž. Plane curves as Pfaffians. *Annali della Scuola normale superiore di Pisa, Classe di scienze*, ISSN 0391-173X, 2011, vol. 10, iss. 2, str. 363-388. [COBISS.SI-ID 15928409]

Dejan Velušček:

OSHIMA, Kojiro, TEICHMANN, Josef, VELUŠČEK, Dejan. A new extrapolation method for weak approximation schemes with applications. *Annals of applied probability*, ISSN 1050-5164, 2012, vol. 22, no. 3, str. 1008-1045. [COBISS.SI-ID 16384857]

VELUŠČEK, Dejan. A short note on the higher level version of the Krull--Baer theorem. *Canadian mathematical bulletin*, ISSN 0008-4395, 2011, vol. 54, no. 2, str. 381-384. [COBISS.SI-ID 15907161]

VELUŠČEK, Dejan. Higher product Pythagoras numbers of skew fields. *Asian-European journal of mathematics*, 2010, vol. 3, no. 1, str. 193-207. [COBISS.SI-ID 15542105]