

UČNI NAČRT PREDMETA / COURSE SYLLABUS						
Predmet:	Individualni študij 2					
Course title:	Individual study 2					
Študijski program in stopnja Study programme and level	Študijska smer Study field		Letnik Academic year	Semester Semester		
3MaFi	Matematika		2	prvi in drugi		
3MaFi	Mathematics		2	first and second		
Vrsta predmeta / Course type			obvezni			
Univerzitetna koda predmeta / University course code:			M3131			
Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje work	Druge oblike študija	Samost. delo Individ. work	ECTS
	5				180	6
Nosilec predmeta / Lecturer:		prof. Alexander Keith Simpson, prof. Matej Brešar, prof. Primož Potočnik				
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):			

Refleksija: Pridobljeno znanje bo študent ustrezno reflektiral.

Prenosljive spretnosti: Sposobnost razumevanja najzahtevnejših matematičnih dokazov ter načinov uporabe klasičnih rezultatov pri originalnih raziskovalnih problemih.

Reflection: The acquired knowledge will be appropriately reflected.

Transferable skills: The skill of understanding deep mathematical arguments and the usage of classical results in original research work.

Metode poučevanja in učenja:

Samostojni študij in konzultacije.

Learning and teaching methods:

Individual study and consultations.

Načini ocenjevanja:

Domače naloge in ustni izpit. Ocene: opravi, ni opravi.

Delež (v %) /
Weight (in %)

100%

Assessment:

Homework and oral exam. Grades: pass, fail.

Reference nosilca / Lecturer's references:

Matej Brešar:

BREŠAR, Matej. Functional identities on tensor products of algebras. Journal of algebra, ISSN

0021-8693, 2016, vol. 455, str. 108-136. [COBISS.SI-ID 17625945]

BREŠAR, Matej. Algebras in which non-scalar elements have small centralizers. *Linear and Multilinear Algebra*, ISSN 0308-1087, 2015, vol. 63, no. 9, str. 1864-1871. [COBISS.SI-ID 17160537]

BREŠAR, Matej, ŠPENKO, Špela. Functional identities of one variable. *Journal of algebra*, ISSN 0021-8693, 2014, vol. 401, str. 234-244. [COBISS.SI-ID 16842329]

Alexander Simpson:

AWODEY, Steve, BUTZ, Carsten, SIMPSON, Alex, STREICHER, Thomas. Relating first-order set theories, toposes and categories of classes. *Annals of pure and applied Logic*, ISSN 0168-0072. [Print ed.], 2014, vol. 165, iss. 2, str. 428-502. [COBISS.SI-ID 17089881]

EGGER, Jeff, MØGELBERG, Rasmus Ejlers, SIMPSON, Alex. The enriched effect calculus: syntax and semantics. *Journal of logic and computation*, ISSN 0955-792X, 2014, vol. 24, iss. 3, str. 615-654. [COBISS.SI-ID 17090137]

SIMPSON, Alex. Measure, randomness and sublocales. *Annals of pure and applied Logic*, ISSN 0168-0072. [Print ed.], 2012, vol. 163, iss. 11, str. 1642-1659. [COBISS.SI-ID 17091161]

Primož Potočnik:

BERČIČ, Katja, POTOČNIK, Primož. Two-arc-transitive two-valent digraphs of certain orders. *Ars mathematica contemporanea*, ISSN 1855-3966. [Tiskana izd.], 2016, vol. 11, no. 1, str. 127-146. [COBISS.SI-ID 1538308036]

POTOČNIK, Primož, WILSON, Stephen. Linking rings structures and semisymmetric graphs: Cayley constructions. *European journal of combinatorics*, ISSN 0195-6698, 2016, vol. 51, str. 84-98. [COBISS.SI-ID 17462361]

POTOČNIK, Primož, SPIGA, Pablo, VERRET, Gabriel. Bounding the order of the vertex-stabiliser in 3-valent vertex-transitive and 4-valent arc-transitive graphs. *Journal of combinatorial theory. Series B*, ISSN 0095-8956, 2015, vol. 111, str. 148-180. [COBISS.SI-ID 1537132228]

