

UČNI NAČRT PREDMETA / COURSE SYLLABUS (leto / year 2017/18)						
Predmet:		Pedagoška praksa 1				
Course title:		Teaching work experience 1				
Študijski program in stopnja Study programme and level		Študijska smer Study field		Letnik Academic year	Semester Semester	
Enoviti magistrski študijski program Pedagoška matematika		ni smeri		3	drugi	
Integrated Master's study programme Pedagogical Mathematics		none		3	second	
Vrsta predmeta / Course type				obvezni / compulsory		
Univerzitetna koda predmeta / University course code:				M0577		
Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje work	Druge oblike študija	Samost. delo Individ. work	ECTS
	15			15	60	3
Nosilec predmeta / Lecturer:		doc. dr. Damjan Kobal				
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>Študent pridobi praktične izkušnje v okviru hospitacij in nastopov. Po dogovoru učitelj matematike kot mentorji spremljajo in vodijo delo študenta, ki se najprej preko hospitacij seznanja z delom v razredu, potem pa tudi sam opravlja nastope. Delo je koordinirano in poteka v stalnem sodelovanju med učiteljem na fakulteti in učiteljem mentorjem na srednji šoli. Izkušnje s hospitacij se diskutirajo in analizirajo. V okviru predmeta študent prisostvuje vsaj petnajstim uram pouka matematike. Od tega ima tudi že dva nastopa. Hospitacije in nastope opravlja po dogovoru v okviru gimnazijskih programov. Nekaj ur hospitacij opravi tudi na osnovnih šolah.</p> <p>Študent lahko v dogovoru z izvajalcem predmeta obveznosti opravi tudi na prilagojen in specifičen način v okvirih praktičnega dela z učenci, dijaki ali študenti kot so: tutoriranje, mentoriranje raziskovalnih nalog, vodenje krožkov, priprava na tekmovanja in drugo.</p>	<p>Students acquire field experiences with classroom observation and instruction. Mathematics teacher guides a student to gain real classroom experiences. Students observe classroom teaching and under teacher's observation also teach themselves. Teaching is discussed and analysed. In field practice is carefully designed in collaboration with high school teacher advisor and university teacher. Student participates within at least fifteen school hours and teaches at least two hours. Student mainly visits high school classes, but also elementary school.</p> <p>In agreement with the course teacher, a student can fulfil course obligations also by specific practical work with pupils or students (tutoring, mentoring research projects, preparation for mathematics competitions and other math activities with students).</p>
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Temeljni literatura in viri / Readings:

H. Freudenthal: Mathematics as an Educational Task, Springer, Berlin, 1972.
S. G. Krantz: How to Teach Mathematics, 2nd edition, AMS, Providence, 1999.
F. Pediček: Edukacija danes, Obzorja, Maribor, 1994.
G. Polya: Mathematics and Plausible Reasoning, Princeton Univ. Press, Princeton, 1990.
Srednješolski učbeniki.
H. W. Heymann: Why Teach Mathematics : A Focus on General Education, Springer, New York, 2004.

Cilji in kompetence:

Pedagoška praksa v šoli je obvezni sestavni del pedagoškega usposabljanja. Organizira in izvaja se po načelu reflektivne prakse in študentom omogoča integracijo predmetno-vsebinskega in pedagoško-profesionalnega znanja s postopnim vpeljevanjem v poučevanje in poklic učitelja.

Objectives and competences:

In field experiences are an obligatory part of pedagogical training. It is organized to be as reflective and creative as possible. It designed to

Slušatelji se ob praktičnem delu v razredu spoznajo s problematiko sodobnega poučevanja in različnih oblik dela pri pouku matematike.

promote a successful interaction between content and didactical principles of teaching. Prospective teachers learn about the problems of modern mathematics teaching.

Predvideni študijski rezultati:

Poznavanje in razumevanje zapletenih odnosov praktičnega matematičnega poučevanja.

Uporaba praktičnih izkušenj pri oblikovanju učiteljskih nazorov.

Intended learning outcomes:

Students acquire the ability to understand and handle the complexity of modern teaching of mathematics. Practical experiences are ingrained into their teaching principles.

Metode poučevanja in učenja:

Hospitacije, nastopi, diskusije, konzultacije

Learning and teaching methods:

Classroom observation, instruction, discussions, consultations

Načini ocenjevanja:

Delež (v %) /

Weight (in %)

Assessment:

Hospitacije, nastopi, poročilo

Zahtevana ustrezna sposobnost (strokovne) komunikacije v slovenskem jeziku.

100%

Classroom observation, instruction, report

Adequate ability of professional

ocene: opravi / ni opravi		communication in Slovenian is required. Grading: pass/fail
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Reference nosilca / Lecturer's references:

KOBAL, Damjan. Technology and simple math ideas inspire teaching. V: ICME - 12 : the 12th International Congress on Mathematical Education, July 8-15, 2012, COEX, Seoul, Korea. Cheongju: Korea National University of Education, 2012, 7 str. [COBISS.SI-ID 17151577]

KOBAL, Damjan, et al. Integrating algebra and geometry with complex numbers. V: International Seminar in Mathematics Education 2011. Park City: Park City Mathematics Institute - Institute for Advanced Study, cop. 2013, 9 str. [COBISS.SI-ID 17152345]

KOBAL, Damjan. Iluzija objektivnosti ali objektivnost odgovornosti. Obzornik za matematiko in fiziko, ISSN 0473-7466, 2007, letn. 54, št. 1, str. 18-28. [COBISS.SI-ID 14302297]

KOBAL, Damjan. Inner product space and circle power. Publicationes mathematicae, ISSN 0033-3883, 2012, vol. 81, fasc. 1-2, str. 1-9. [COBISS.SI-ID 16336473]

KOBAL, Damjan. Bijections preserving invertibility of differences of matrices on H [sub] n . Acta mathematica Sinica, English series, ISSN 1439-8516, 2008, vol. 24, no. 10, str. 1651-1654. [COBISS.SI-ID 15588441]

KOBAL, Damjan. Preserving diagonalisability on upper triangular matrices. Linear and Multilinear Algebra, ISSN 0308-1087, 2006, vol. 54, no. 3, str. 189-194. [COBISS.SI-ID 13971801]