

COURSE TITLE		METHODOLOGY SEMINAR: BIOGRAPHIES OF FAMOUS MATHEMATICIANS					
Code	PMM013	Year of study	Graduate study II. year				
Lecturer(s)	Željka Zorić	ECTS credits	3				
Assistants		Teaching methods (hours per semester)	L	S	E	F	
			0	30	0	0	
Course status	Required course	e-learning %					
COURSE DESCRIPTION							
Course objectives	<ul style="list-style-type: none"> research and describe the biographies of famous mathematicians research the influence and contribution of famous mathematicians to the development of ideas and methods in mathematics prepare students for lifelong learning in mathematics education 						
Course prerequisites for enrolment and competency requirements	No prerequisites for the course.						
Expected learning outcomes on course level (4-10 learning outcomes)	<p>After finishing the course, students should be able to:</p> <ul style="list-style-type: none"> report on key events in the lives of famous mathematicians interpret their influence and contribution demonstrate the ways they calculated and proved their theorems as well as the way they solved the tasks through the history of mathematics – regarding the contribution of famous mathematicians combine and interpret the chronology of different branches of mathematics – through the lives of famous mathematicians combine and provide arguments for causes and effects of the development of ideas and methods in math 						
Detailed course content according to teaching hours	<p>On the first class of the course students will choose the topic of their seminar report, receive a detailed instructions on how to write it and present it, and arrange a date on which the presentation will be held. By then, there will be no lectures. Several topics for seminar reports:</p> <ul style="list-style-type: none"> Pythagoras, Zeno, Archimedes, Euclid, Diophantus, Apollonius Cardano, Al Khwarizmi, Napier, Madhava, Oresme Descartes, Fermat, Pascal, Huygens, D'Alambert Newton, Leibniz, Bernoulli, Fourier, Cavalieri Euler, Lagrange, Laplace, Gauss, Cauchy Lobačevski, Abel, Galois, Legendre, Dirichlet Cayley, Weirstrass, Boole Kronecker, Dedekind, Cantor Sonja Kovalevska, Sophie Germain Herman Dalmatin, Petrić, Getaldić, Bošković, Varičak and others 						
Types of teaching methods	<input type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input type="checkbox"/> exercises <input type="checkbox"/> entirely <i>online</i> <input type="checkbox"/> e-learning, combination <input type="checkbox"/> field work		<input checked="" type="checkbox"/> individual tasks <input checked="" type="checkbox"/> multimedia <input type="checkbox"/> laboratory <input type="checkbox"/> mentorship <input type="checkbox"/> (fill in)				
Student obligations	<ul style="list-style-type: none"> regular attendance write a seminar report on selected topic submit a written report present a report actively participate in the classes 						
Monitoring students practice (enter ECTS credits for each activity so that total ECTS credits	Attendance	1	Research		Praxis		
	Experiments		Paper				
	Essays		Report	2	(fill in)		

<i>correspond to subject scores)</i>	Preliminary exam		Oral exam		(fill in)	
	Written exam		Project		(fill in)	
Evaluation and assessment of students performance in the course and on the final exam	<p>Students who were regular in attending classes (over 80%), who wrote and presented a seminar paper and got a passing grade, have the right to obtain the signature.</p> <p>Students with the right to the signature have their grade formed according to the grade of their report – written part (40%), presentation (50%) and activity during the seminar (10%).</p>					
Obligatory literature (available in the library or through other media)	Title			Number of copies in the library	Availability through other media	
	M. Bruckler, Povijest matematike 1, Sveučilište J. J. Strossmayara u Osijeku, 2007.					
	M. Bruckler, Povijest matematike 2, Sveučilište J. J. Strossmayara u Osijeku, 2010.				yes	
	E. T. Bell, Veliki matematičari, Znanje, zagreb, 1972.					
	Z. Šikić, Kako je stvarana novovjekovna matematika, Školska knjiga, Zagreb, 1989.					
	Š. Znam i dr., Pogled u povijest matematike, Tehnička knjiga, Zagreb, 1989.					
	G. I. Gleizer, Povijest matematike za školu, Školske novine i HMD, Zagreb, 2003.					
Additional literature	<p>V. Devide, Matematika kroz kulture i epohe, Školska knjiga, Zagreb, 1979</p> <p>Ž. Dadić, Razvoj matematike, Školska knjiga, Zagreb, 1975.</p> <p>Ž. Dadić, Povijest ideja i metoda u matematici i fizici, Školska knjiga, Zagreb, 1992</p> <p>Ž. Dadić, Povijest egzaktnih znanosti u Hrvata 1 i 2, SNL, Zagreb, 1982.</p> <p>The Oxford handbook of the History of mathematics, Oxford University Press</p> <p>F. Burton, The History of Mathematics: An introduction, 6th edition, McGraw – Hill Primis, 2007.</p>					
Quality monitoring methods that enable the achievement of course objectives	During the last week of the course in an anonymous survey students will evaluate the quality of the classes.					
Other (in the opinion of the proposer)						