COURSE TITLE	COURSE TITLE HISTORY OF MATHEMATICS							
Code	PMM009	Year of study	Graduate study II. year					
Lecturer(s)	Željka Zorić, lect.	ECTS credits 3						
Assistants		Teaching methods (hours per semester)	L 30	S 0	E 0	F 0		
Course status	Compulsory and elective	e-learning %	50	U	U	U		
Course objectives	 demonstrate historical development of ideas and methods in mathematics, from the earliest civilizations to the 20th century research and describe the biographies of famous mathematicians in history 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 cou	irse.						
Expected learning outcomes on course level (4-10 learning outcomes)	 After finishing the course, students should be able to: demonstrate the ways they calculated and proved their theorems as well as the way they solved the tasks through the history of mathematics – regarding a specific civilization 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 provide arguments for causes and effects of the development of ideas and methods in math report on key events in the lives of famous mathematicians interpret their influence and contribution combine and interpret the chronology of a specific branch of mathematics estimate and suggest which facts, stories and contributions can be used effectively in teaching math in order to foster students' interest and motivation 							
Detailed course content according to teaching hours	 Lectures will include the following topics: Mathematics and prehistory Mathematics in early civilizations - Babylon and Egypt Ancient Greek mathematics – from Thales to the concept of incommensurability Ancient Greek mathematics – Hellenistic period Ancient Greek mathematics – Post-classical period Ancient Greek mathematics – Silver age The three classical problems Mathematics in non-European nations – China and India Arabic mathematics Mathematics in the Roman Republic Mathematics in the Renaissance Development of mathematical analysis Development of the Probability theory Discovery of analytic geometry Modern Number theory 							

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s ,										
Women in mathematics										
 Iectures seminars and workshops exercises entirely <i>online</i> e-learning, combination field work 										
 regular attendance write a seminar report on selected topic submit a written report present a report actively participate in the classes 										
Attendance	1	Research		Praxis						
Experiments		Paper		(fill in)						
Essays		Report	0,5	(fill in)						
Preliminary exam		Oral exam	1,5	(fill in)						
Written exam		Project		(fill in)						
students who were regular in attending classes (over 6076), who wrote and presented a seminar paper and got a passing grade, have the right to obtain the signature. Students with the right to the signature have their grade formed according to the grade of their report – written part, presentation, activity during the seminar (40%) and oral exam grade (60%).										
Title			Number of copies in the library	Availability through other media						
			čilište J. J.		M. Bruckler, Povijest matematike 1, Sveučilište J. J.					
Strossmayara u Osijeku, 2007. M. Bruckler, Povijest matematike 2, Sveučilište J. J. Strossmayara u Osijeku, 2010.										
M. Bruckler, Povije Strossmayara u O	est mater sijeku, 2	matike 2, Sveu 010.			yes					
M. Bruckler, Povije Strossmayara u O V. Devide, Matema	est mater sijeku, 2 atika kroz	matike 2, Sveu 010.			yes					
M. Bruckler, Povije Strossmayara u Os V. Devide, Matema knjiga, Zagreb, 19 Z. Šikić, Kako je st	est mater sijeku, 2 atika kroz 79 tvarana r	natike 2, Sveu 010. z kulture i epoh	ie, Školska		yes					
M. Bruckler, Povije Strossmayara u O V. Devide, Matema knjiga, Zagreb, 19 Z. Šikić, Kako je st matematika, Škols Š. Znam i dr., Pog	est mater sijeku, 2 atika kroz 79 tvarana r ka knjiga led u pov	natike 2, Sveu 010. z kulture i epoh novovjekovna a, Zagreb, 1989 <i>i</i> jest matemati	ne, Školska 9.		yes					
M. Bruckler, Povije Strossmayara u Os V. Devide, Matema knjiga, Zagreb, 19 Z. Šikić, Kako je st matematika, Škols Š. Znam i dr., Pogl Tehnička knjiga, Za G. I. Gleizer, Povij novine i HMD, Zag	est mater sijeku, 2 atika kroz 79 tvarana r ka knjiga led u pov agreb, 19 est mate jreb, 200	matike 2, Sveu 010. z kulture i epoh novovjekovna a, Zagreb, 1989 vijest matemati 989. matike za škol 3.	ne, Školska 9. ke, u, Školske		yes					
M. Bruckler, Povije Strossmayara u O V. Devide, Matema knjiga, Zagreb, 19 Z. Šikić, Kako je st matematika, Škols Š. Znam i dr., Pog Tehnička knjiga, Za G. I. Gleizer, Povij novine i HMD, Zag Ž. Dadić, Povijest Školska knjiga, Za	est mater sijeku, 2 atika kroz 79 tvarana r ka knjiga led u pov agreb, 19 est mate jreb, 200 ideja i m greb, 19	natike 2, Sveu 010. z kulture i epoh novovjekovna a, Zagreb, 1989 vijest matemati 989. matike za škol 3. etoda u matem 92.	ne, Školska 9. ke, u, Školske natici i fizici,		yes					
M. Bruckler, Povije Strossmayara u O V. Devide, Matema knjiga, Zagreb, 19 Z. Šikić, Kako je st matematika, Škols Š. Znam i dr., Pog Tehnička knjiga, Za G. I. Gleizer, Povij novine i HMD, Zag Ž. Dadić, Povijest	est mater sijeku, 2 atika kroz 79 tvarana r ka knjiga led u pov agreb, 19 est mate greb, 200 ideja i m greb, 19 ttematiča	natike 2, Sveu 010. z kulture i epoh novovjekovna a, Zagreb, 1989 /ijest matemati 989. matike za škol 3. etoda u matem 92. ari, Znanje, zag	ne, Školska 9. ke, u, Školske natici i fizici, rreb, 1972.		yes					
	 Emergence Women in Iectures seminars and w exercises entirely online e-learning, com field work regular atternance submit a weight of the series actively particular atternance Experiments Essays Preliminary exam Written exam Students who were presented a seminisignature. Students with the regrade of their report and oral exam grade M. Bruckler, Povije 	Emergence of Grou Women in mathem Women in mathem Seminars and workshop exercises entirely online e-learning, combination field work regular attendance write a seminar rep submit a written re present a report actively participate Attendance 1 Experiments Essays Preliminary exam Written exam Students who were regular presented a seminar paper signature. Students with the right to th grade of their report – writte and oral exam grade (60%)	 Emergence of Group theory Women in mathematics Iectures seminars and workshops exercises entirely online e-learning, combination field work regular attendance write a seminar report on selected submit a written report present a report actively participate in the classes Attendance Research Experiments Paper Essays Report Preliminary exam Oral exam Written exam Project Students who were regular in attending of presented a seminar paper and got a passignature. Students with the right to the signature had grade of their report – written part, preser and oral exam grade (60%). M. Bruckler, Povijest matematike 1, Sveu	Emergence of Group theory Women in mathematics Women in mathematics Women in mathematics Women in mathematics Individual ta multimedia Iaboratory entirely online <td> Emergence of Group theory Women in mathematics lectures seminars and workshops exercises entirely online laboratory mentorship elearning, combination field work regular attendance write a seminar report on selected topic submit a written report present a report actively participate in the classes Attendance Research Praxis Experiments Paper Oral exam 1,5 (fill in) Written exam Oral exam 1,5 (fill in) Students who were regular in attending classes (over 80%), who wr presented a seminar paper and got a passing grade, have the right signature. Students with the right to the signature have their grade formed accord grade of their report – written part, presentation, activity during the sand oral exam grade (60%). </td>	 Emergence of Group theory Women in mathematics lectures seminars and workshops exercises entirely online laboratory mentorship elearning, combination field work regular attendance write a seminar report on selected topic submit a written report present a report actively participate in the classes Attendance Research Praxis Experiments Paper Oral exam 1,5 (fill in) Written exam Oral exam 1,5 (fill in) Students who were regular in attending classes (over 80%), who wr presented a seminar paper and got a passing grade, have the right signature. Students with the right to the signature have their grade formed accord grade of their report – written part, presentation, activity during the sand oral exam grade (60%). 					

	Evariste Galois – opus, priredio Leon Horvat, Element, Zagreb, 2011. Larousse enciklopedija za mlade: Matematika i informatika, ABC naklada, Zagreb, 2004.
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)	