

Program	Level		Third cycle	
	Name of the program		SEE Doctoral Studies in Mathematical Science	
COURSE				
Course title	Methodology of research and academical skills			
Course code	Semester	Course status	ECTS	Contact hours
PMAT 610	I	Elective course	10	30
Lecturer	Prof. Dr. Muharem Avdispahić/Prof. Dr. Senada Kalabušić			
Course Goals	The subject should refer students to the standards of research work in mathematics and provide knowledge that can be helpful in choosing a field and conducting your own research. Attention will be paid to questions faced by each Doctoral student: what and how to investigate; how to choose a mentor; how to write scientific work in mathematics, dissertation, books; where to publish; at what conferences and how participate; how to cooperate. In addition to research capabilities as fundamental, the aim is to improve other professional skills useful for a future career			
COURSE CONTENT				
<ul style="list-style-type: none"> - Principles of research work in mathematics - Writing and publishing - Presentation of scientific results - International cooperation - Interdisciplinary and multidisciplinary project work - Teaching activity - Mentoring work 				
LITERATURE				
<p>[1] T. Gowers (ed.), The Princeton Companion to Mathematics, Princeton University Press, 2008</p> <p>[2] N. J. Higham, Handbook of Writing for the Mathematical Sciences, 2nd ed., SIAM: Society for Industrial and Applied Mathematics, 1998</p> <p>[3] S. G. Krantz, A Mathematician's Survival Guide: Graduate School and Early Career Development, American Mathematical Society, 2003</p> <p>[4] N. E. Steenrod, P. R. Halmos, M. M. Schiffer and J. A. Dieudonne, How to write mathematics, 6th printing American Mathematical Society, 2000</p>				
GRADING			REMARKS	
Criterion	Maximum points	Minimum points		
Homework	30	16		
Projects	40	22		
Final exam	30	17		
T o t a l	100	55		