

COURSE NAME		Diploma thesis			
Code	PMM990	Year of study	2 nd year of graduate study		
Course teacher	Mentor	Credits (ECTS)	12		
Associate teachers		Type of instruction (number of lessons)	L	S	E
			0	21	0
Course status	Compulsory	E-learning application			
COURSE DESCRIPTION					
Course objectives	<p>Students will:</p> <ul style="list-style-type: none"> -learn to individually analyse mathematical topics -learn to use the literature for the assigned research -learn to write mathematical essays and make presentations -learn to systematize and communicate the achieved mathematical competences 				
Course enrolment requirements and entry competences required for the course	The course is compulsory for all students of the 2 nd year of graduate study.				
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<p>Graduates will be able to:</p> <ul style="list-style-type: none"> -demonstrate the ability to understand professional mathematical writing; -engage in the research of a topic that is beyond the regular math department offerings in both rigor and content; -produce a complete, coherent and concise thesis that exhibits both the background and the conclusions reached as a result of the research – communicate mathematical ideas adequately and basic mathematical knowledge orally. 				
Course content details by weekly class schedule (syllabus)	The student chooses one of the assigned mathematical topics and works on it with the mentor's assistance in order to write his/her master's thesis. The student systematizes basic mathematical competences acquired during the studies and prepares for the demonstration. The chosen topic and basic mathematical skills are presented in front of the board (the mentor and two more professors)				
Format of instruction	seminars and mentorship				
Student obligations	Consultation session on the relevant topic, producing master's thesis and seminar scheduling. Master's thesis writing.				
Screening student work (<i>name the proportion of ECTS credits for each activity so that the total number of ECTS credits is equal to the ECTS value of the course</i>)	seminars 1 ECTS individual work (preparing for seminars, preparing for oral examination of basic mathematical knowledge, bibliography studying, thesis writing) 11 ECTS				

Grading and evaluating student work in class and at the final exam	Having passed all the compulsory exams in the graduate study, the student can start conducting seminars with the mentor's permission. In these seminars, the student presents the chosen topic in front of the the mentor. The mentor decides whether the student is ready to take the master's thesis exam. The master's thesis exam consists of the oral exam and presentation of chosen parts of the diploma thesis. At the oral exam student presents basic mathematical skills orally. The presentation of chosen parts of the diploma thesis can be scheduled after the completion of the thesis and the positive completion of the oral exam. The final grade derives from the arithmetic mean of the master's thesis exam in written and oral form along with the final presentation. .
Required literature (available in the library and via other media)	Literature for given topic according to the mentor's recommendation.
Optional literature (at the time of submission of study programme proposal)	
Quality assurance methods that ensure the acquisition of exit competences	Student discussion (before and after graduation).
Other (as the proposer wishes to add)	