

NAME OF THE COURSE		Master thesis				
Code	PMPMSC	Year of study	DS-2			
Course teacher	mentor	Credits (ECTS)	30			
Associate teachers		Type of instruction (number of hours)	L	S	E	F
				10		
Status of the course	Obligatory	Percentage of application of e-learning				
COURSE DESCRIPTION						
Course objectives	Developing the ability of scientific research or synthesis of a given topic from physics. Developing the ability to use scientific literature and research in a given topic in literature. Developing the ability to write a paper and scientific / professional reporting. Production an original work under the supervision of a mentor, which is by the methodology and contribution suitable for the research in physics.					
Course enrolment requirements and entry competences required for the course	The master thesis is a compulsory for all second year students.					
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ul style="list-style-type: none"> • analyse professional and scientific literature • address a topic in physics that is not covered by the standard study program • apply spelling, grammar and syntactic rules of the standard language in spoken and written communication • apply the scientific method • apply presentation skills • use a computer to process and display experimental and / or theoretical results • present complex physical ideas clearly and concisely • demonstrate the skill of coherent and professional writing text in physics • make correct, linguistically and terminologically consistent and consistent work in harmony with the standards of the profession which completely deals with the given topic and in which the results of the study of a given topic are clearly and precisely presented • orally present selected ideas and contents from physics and systematically and concisely demonstrate basic knowledge.. 					
Course content broken down in detail by weekly class schedule (syllabus)	<ul style="list-style-type: none"> • Scientific method • Relevant knowledge bases and resources • Literature research • Formulation of a topic and research question • Instruments and experiment design • Sampling and data collection • Processing of results • Elements of a written professional and scientific report • Elements of presentation • Multimedia in the presentation. <p>The student chooses one of the offered topics in physics, which he / she deals with with the help of a mentor with the aim of writing a thesis. After passing all the prescribed exams at graduate study, the student can, in agreement with the mentor, start preparing master thesis (study of necessary literature, problem definition, implementation research, processing of research results). After the mentor's assessment that the student is in sufficiently processed and mastered the given topic, the mentor suggests other members Commissions and in agreement with the student reports the date of the thesis defense at least a week before the proposed</p>					

	date. Master thesis and basic knowledge from physics student presents before a committee composed of a mentor and two others professors.					
Format of instruction	<input type="checkbox"/> lectures <input checked="" type="checkbox"/> seminars and workshops <input type="checkbox"/> exercises <input type="checkbox"/> <i>on line</i> in entirety <input type="checkbox"/> partial e-learning <input checked="" type="checkbox"/> field work			<input checked="" type="checkbox"/> independent assignments <input type="checkbox"/> multimedia <input checked="" type="checkbox"/> laboratory <input checked="" type="checkbox"/> work with mentor <input type="checkbox"/> (other)		
Student responsibilities	Consulting with a mentor on a given topic, writing a thesis, planning and holding seminars and defending a thesis. Preparation of a diploma thesis					
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>)	Class attendance		Research		Practical training	
	Experimental work		Report		Self-study (Other)	30
	Essay		Seminar essay		(Other)	
	Tests		Oral exam		(Other)	
	Written exam		Project		(Other)	
Grading and evaluating student work in class and at the final exam						
Required literature (available in the library and via other media)	Title				Number of copies in the library	Availability via other media
	[Literature for the selected topic of the thesis by mentor recommendations.					
Optional literature (at the time of submission of study programme proposal)	Articles from current periodicals from the selected topic.					
Quality assurance methods that ensure the acquisition of exit competences	Interviews with the student, before and after graduation. Student surveys.					
Other (as the proposer wishes to add)						