

COURSE DESCRIPTION

General information		
Lead instructor	All active mentors	
Course name	CDS-05: Individual Research Work 2	
Study programme	Computer and Data Science, third cycle Doctoral Study Programme	
Course status	Mandatory	
Year	Second	
Number of credits and mode of delivery	ECTS student workload coefficient	40
	Number of hours (L+P+S)	-/-/1200

Course description
<i>1.1. Course goals</i>
<ul style="list-style-type: none"> - Formulation of a complete plan of doctoral research - A thorough study of literature and other secondary sources for the needs of the doctoral research - An initial critical analysis of literature and other secondary sources with the review of the state-of-the-art - Preparation of the doctoral disposition with all the required elements, following the consultations with the (co-)mentor
<i>1.2. Course enrolment requirements</i>
There is none.
<i>1.3. Intended course learning outcomes</i>
<p>Knowledge and understanding:</p> <p>The student:</p> <ul style="list-style-type: none"> - Collects the key materials, conducts analyses, generates solutions, and obtains preliminary results, required for the preparation of the doctoral dissertation
<i>1.4. Course content</i>
<p>Learning unit contributes to the development of the following general competences:</p> <ul style="list-style-type: none"> - ability to create new knowledge, which represents a contribution to science - mastery of standard research methods, procedures and processes in diverse scientific fields - ability for independent research-development work and leadership of a research group commitment to professional ethics <p>and subject-specific competencies:</p> <ul style="list-style-type: none"> - ability to solve concrete research problems in individual scientific fields

- development of skills and abilities in usage of knowledge in the scientific field of doctoral dissertation
- ability to innovatively use and combine diverse research methods

1.5. Modes of delivery (mark the appropriate boxes with an X)	<input checked="" type="checkbox"/> lectures	<input checked="" type="checkbox"/> independent work
	<input type="checkbox"/> seminars and workshops	<input type="checkbox"/> multimedia and network
	<input checked="" type="checkbox"/> practicals	<input type="checkbox"/> laboratory
	<input type="checkbox"/> remote learning	<input type="checkbox"/> supervision
	<input type="checkbox"/> field work	<input type="checkbox"/> other _____

1.6. Student obligations

1.7. Monitoring student work (mark the appropriate boxes with an X)

Class attendance		Participation in class		Seminar paper		Experimental work	
Written exam		Oral exam		Essay		Research	
Project		Continuous assessment of knowledge		Student report		Practical work	
Portfolio		Schoolwork		Homework			

1.8. Assessment and evaluation of student work during classes and the final exam

Type (examination, oral, coursework, project):

- The grading of the learning unit is provided by the mentor. The grade »passed« is given if the student – in compliance with the approved disposition of the doctoral dissertation and with the agreed plan among the student and the mentor – implements the planned research tasks, required for the doctoral dissertation preparation, 100%

1.9. Required readings and number of copies relative to the number of students currently taking the course

Title	Number of copies	Number of students
Defined based on the topic of a particular doctoral dissertation		

1.10. Supplementary readings

1.11. Methods of quality monitoring that ensure the acquisition of knowledge, skills and competences.

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