COURSE DESCRIPTION

General information		
Lead instructor	Professor Matej Makarovič, Associate Professor Borut Lužar Professor Ivana Ogrizek Biškupić Assistant Professor doc.dr.sc. Maja Brkljačić	
Course name	**CDS-02: Doctoral seminar 1**	
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	10
	Number of hours (L+P+S)	-/30/270

Course description
1.1. Course goals
The module contributes to the following general and subject-specific competences: General competences: Ability to identify a research problem, analyze it, and offer possible solutions. Ability to create new knowledge, which represents a contribution to science. Mastery of standard research methods, procedures and processes in diverse scientific fields. Familiarity with the notion of quality and strive for professional quality through autonomy, (self-) criticism, (self-) reflection and (self-) evaluation. 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. Ability to acquire, interpret, select, evaluate, and insert new knowledge. Subject-specific competences: Ability to autonomously solve concrete research problems, including the most complex issues. Ability to operationalize abstract theoretical concepts at the advanced level. Formulation of the research design at the most advanced level and the ability to defend it. Ability to prepare a scientific paper, present it and conduct peer reviews.
1.2. Course enrolment requirements
All obligations from the first year

1.3. *Intended course learning outcomes*

Knowledge and understanding:

The student acquires knowledge for:
the preparation of a draft of the scientific paper,
the presentation of her/his draft scientific paper in front of the lecturer and her/his study colleagues (peers),
critical assessment of draft scientific papers of her/his study colleagues,
considering relevant comments and suggestions from the seminar in the process of finalization of scientific paper.

1.4. *Course content*

The seminar is directly related to the preparation of the doctoral dissertation and the related scientific paper.

Within the seminar, the student develops the first draft of the scientific paper, which refers to the selected research topic of the confirmed disposition of the doctoral dissertation. The student also presents a draft of the scientific paper within the seminar. Students listen to other presentations of doctoral students and actively participate through the implementation of peer reviews of drafts of the scientific papers.

The completed and presented draft must serve as a sufficient basis for the preparation of the final text of the scientific paper.

1.5. *Modes of delivery (mark the appropriate boxes with an X)*	☒ *lectures* ☐ *seminars and workshops* ☒ *practicals* ☐ *remote learning* ☐ *field work*	☒ *independent work* ☐ *multimedia and network* ☐ *laboratory* ☐ *supervision* ☐ *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):

- Preparation and presentation of a draft scientific paper, 60%
- Two peer reviews, 40%

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*
Becker, L. M., & Denicolo, P. (2012). Publishing journal articles. Sage.		
Belcher, W. L. (2019). Writing your journal article in twelve weeks: a guide to academic publishing success. The University of Chicago Press.		
Drafts of scientific papers.		
1.10. Supplementary readings		
1.11. Methods of quality monitoring that ensure the acquisition of knowledge, skills and competences.		