

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet: Raziskovalni praktikum
Course title: Research Practice

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Informatika v sodobni družbi, visokošolski strokovni študijski program prve stopnje	-	Tretji	Peti
Informatics, in Contemporary Society the first cycle Professional Programme	-	Third	Fifth

Vrsta predmeta / Course type

Obvezni / Obligatory

Univerzitetna koda predmeta / University course code:

1-ISD-VS-RP-2026-09-29

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje work	Druge oblike študija	Samost. delo Individ. Work	ECTS
30	-	30	-	-	120	6

Nosilec predmeta / Lecturer: Izr. prof. dr. Katarina Rojko

Jeziki / Languages:

Predavanja / Lectures: Slovenski / Slovenian, Angleški / English
Vaje / Tutorial: Slovenski / Slovenian, Angleški / English

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:

Vpis v 3. letnik študija.
Na prvi izpitni rok v študijskem letu se lahko prijavijo le študenti, ki so bili na predavanjih in vajah prisotni vsaj 50 %.

Prerequisites:

Third-year enrolment. Only students who have attended at least 50% of the lectures and tutorials may register for the first exam term of the academic year.

Vsebina:

- Opredelitev raziskovanja.
- Življenjski cikel raziskovanja.
- Izbira raziskovalne teme.
- Identifikacija relevantne literature in virov.
- Priprava pregleda literature.
- Oblikovanje raziskovalnih vprašanj in hipotez.
- Izbira ustrezne raziskovalne metodologije oz. raziskovalne tehnike.

Content (Syllabus outline):

- The nature of research.
- The research life-cycle.
- Selecting a research topic.
- Identification of relevant literature and other sources.
- Writing annotated bibliographies.
- Formulating research questions and hypotheses.
- Selection of an appropriate research methodology or research technique.

- Izvedba empirične raziskave.
- Analiza in interpretacija raziskovalnih rezultatov.
- Diskusija in / ali zaključek raziskave.
- Pisanje raziskovalnega predloga in raziskovalne naloge.
- Veščine predstavljanja raziskave.
- Raziskovalna etika.

- Conducting empirical research.
- Analysis and interpretation of research results.
- Discussion and/or conclusion of research.
- Writing a research proposal and a research paper.
- Research presentation skills.
- Research ethics.

Temeljni literatura in viri / Readings:

- Murray, R. (2017). *How to Write a Thesis* (4th ed.). London: Open University Press.
- Turabian, K. L. (2018). *A manual for writers of research papers, theses, and dissertations: Chicago Style for students and researchers* (9th ed., str. XV, 462). The University of Chicago Press.
- Wayne C. Booth et al. (2024): *The Craft of Research, Fifth Edition* (Chicago Guides to Writing, Editing, and Publishing) Fifth Edition. University of Chicago Press

Cilji in kompetence:

Študentom podati metodološke temelje in različne veščine, potrebne za izvajanje raziskav na področju študije informacijskih tehnologij.

Učna enota prispeva k razvoju naslednjih splošnih in predmetno-specifičnih kompetenc:

- obvladanje raziskovalnih metod, postopkov in procesov
- prizadevanje za kakovost strokovnega dela skozi avtonomnost, (samo)kritičnost, (samo)refleksivnost in (samo)evalviranje v strokovnem delu
- razvoj (samo)kritične presoje
- sposobnost samostojne priprave raziskovalne naloge na ustreznem nivoju

Objectives and competences:

Provide students with the methodological foundations and a variety of skills required to carry out research in the field of information technology studies.

The instructional unit contributes to the development of the following general and subject-specific competences:

- competence in research methods, procedures and processes
- striving to achieve quality of professional work through autonomy, (self) criticism, (self) reflexivity and (self) evaluation in professional work
- development of (self)critical judgement
- the ability to independently prepare a research paper at an appropriate level

Predvideni študijski rezultati:

Znanje in razumevanje:

- relevantnih raziskovalnih konceptov
- raziskovalnih metod in tehnik
- ključnih raziskovalnih ciljev in vprašanj na področju informacijskih tehnologij
- kako načrtovati in izvajati raziskovalno delo
- kako pripraviti pregled literature in poiskati vire za določeno raziskovalno področje
- kako pisati raziskovalne ideje in predloge
- etičnih raziskovalnih praks

Ključne veščine za:

- iskanje ustrezne literature in virov
- izbiro primernih raziskovalnih metod in tehnik za dani raziskovalni problem
- pisanje raziskovalnih osnutkov in raziskovalnih nalog
- zbiranje, analizo in interpretacijo podatkov
- učinkovito predstavljanje raziskovalnih rezultatov

Intended learning outcomes:

Knowledge and understanding:

- relevant research concepts
- research methods and techniques
- key goals and issues in information technology research
- how to design and carry out research work
- how to review the literature and find resources for a specific research topic
- how to write research ideas and proposals
- ethical research practices

Key skills to:

- finding relevant literature and resources
- select proper research methods and techniques for given research needs
- write research proposals and research papers
- collect, analyse, and interpret relevant data
- make efficient presentations of research results

Metode poučevanja in učenja:

- izbrana predavanja, osredotočena na različne vrste raziskovanja in raziskovalnih metod
- delavnice in vaje z aktivno udeležbo študentov (predstavitve, diskusije, študije primerov, reševanje raziskovalnih problemov)
- konzultacije
- priprava empirične raziskovalne naloge in zagovora
- samostojni študij

Learning and teaching methods:

- selected lectures focused on different kinds of research and methods suitable for their conduct
- workshops and tutorials with active students' engagement (presentations, discussions, case studies, solving research problems)
- consultations
- empirical research paper preparation and its defense preparation
- *independent study*

Delež (v %) /

Weight (in %)

Načini ocenjevanja:**Assessment:**

Način (pisni izpit, ustno izpraševanje, naloge, projekt):

- empirična raziskovalna naloga in njen zagovor ali pisni izpit

Študenti, ki so bili na predavanjih in vajah prisotni vsaj 50 % lahko predmetne obveznosti opravijo s

Type (examination, oral, coursework, project):

- Empirical research paper and its defense or a written exam

Students who have attended at least 50% of the lectures and seminars may fulfill the course requirements by

pozitivno ocene pisnega izpita ali s pozitivno oceno oddane empirične raziskovalne naloge in zagovora. Preostali študenti lahko predmetne obveznosti opravijo le s pozitivno oceno pisnega izpita.		successfully passing the written exam or by successfully submitting and defending an empirical research paper. The remaining students may fulfill the course requirements only by successfully passing the written exam.
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Reference nosilca / Lecturer's references:

- ERMAN, Nuša, ROBIDA, Nika, ROJKO, Katarina. Differences among higher education students from the ICT field : formal education vs. lifelong learning. Journal of infrastructure, policy and development. 2025, vol. 9, iss. 1, [article no.] 10714, str. 1-20. [COBISS.SI-ID 225593603]
- ROJKO, Katarina, ERMAN, Nuša. The Impact of the Covid-19 Pandemic on Higher Education Students' Perceptions of Educational Applications and Platforms. International Journal of Cognitive Research in Science, Engineering and Education. 2023, vol. 11, no. 2, str. 267-279. [COBISS.SI-ID 162876675]
- ROJKO, Katarina, LESJAK, Dušan, ERMAN, Nuša. The COVID-19 Pandemic Crisis : impact on ICT spending. Journal of computer information systems. 2022, vol. , iss. , str. 1-16. [COBISS.SI-ID 117632003]
- ROJKO, Katarina, LUŽAR, Borut. Scientific performance across research disciplines : trends and differences in the case of Slovenia. Journal of informetrics : an international journal. 2022, vol. 16, iss. 2, str. 1-21. [COBISS.SI-ID 98097923]
- ERMAN, Nuša, ROJKO, Katarina, LESJAK, Dušan. Traditional and new ICT spending and its impact on economy. Journal of computer information systems. 2022, vol. 62, iss. 2, str. 384-396. [COBISS.SI-ID 44760067]
- ROJKO, Katarina, ERMAN, Nuša, JELOVAC, Dejan. Impacts of the transformation to industry 4.0 in the manufacturing sector : the case of the U.S. Organizacija : revija za management, informatiko in kadre. [Tiskana izd.]. Nov. 2020, vol. 53, no. 4, str. 287-305. [COBISS.SI-ID 41158147]
- ROJKO, Katarina, BRATIĆ, Brankica, LUŽAR, Borut. The Bologna reform's impacts on the scientific publication performance of Ph.D. graduates : the case of Slovenia. Scientometrics. 2020, vol. 124, iss. 1, str. 329-356. [COBISS.SI-ID 16975875]