

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-2024-07-01

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. Ni posebnih pogojev.

Prerequisites:

Third year enrolment. No special requirements.

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.
- Izvedba empirične raziskave.

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.
- Conducting empirical research.

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

- 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 thesis 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 seminarske 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
- seminar work and its defence preparation
- *independent study*

Delež (v %) /

Weight (in %)

Načini ocenjevanja:**Assessment:**

Način (pisni izpit, ustno izpraševanje, naloge, projekt):		Type (examination, oral, coursework, project):
<ul style="list-style-type: none"> • seminarska naloga in njen zagovor 	100	<ul style="list-style-type: none"> • written seminar work and its defence

Reference nosilca / Lecturer's references:

- 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]