

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-2020-05-14

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje work	Druge oblike študija	Samost. delo Individ. work	ECTS
15	-	30	-	-	135	6

Nosilec predmeta / Lecturer: red. prof. dr. Dejan Jelovac

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.
- Oblikovanje raziskovalnih vprašanj.
- Načrtovanje študije.
- Identifikacija relevantne literature in virov.
- Pripravljanje pregleda literature.
- Pisanje raziskovalnih predlogov.
- Pisanje raziskovalne naloge.
- Pisanje člankov in publikacij.
- Veščine predstavljanja.

Content (Syllabus outline):

- The nature of research.
- The research life-cycle.
- Selecting a research topic.
- Formulating research questions.
- Study design.
- Identifying relevant literature and other sources.
- Writing annotated bibliographies.
- Writing research proposals.
- Writing a research paper.
- Paper writing and publications.
- Presentation skills.

- Raziskovalna etika.
- Teme, specifične za posamezna raziskovalna področja, ki si jih izberejo študenti, npr. kvantitativne metodologije, kvalitativne metodologije, izbira pravih orodij, itd.

- Research ethics.
- Topics, specific for students' particular research areas, e.g. quantitative methodologies, qualitative methodologies, choosing the right tools, etc.

Temeljni literatura in viri / Readings:

Obvezna literatura:

- Murray, R. (2017). *How to Write a Thesis* (4th ed.). London: Open University Press.
- Eco, U. (2003). *Kako napišemo diplomsko nalogo*. Ljubljana: Vale-Novak.
- Jelovac, D. *Raziskovalni praktikum – zapiski s predavanj*. FIŠ, Moodle.

Priporočena literatura:

- Anderson, J. & Poole, M. (2001). *Assignment and Thesis Writing* (4th ed.). Wiley, Milton.
- Blaxter, L., Hughes, C. & Tight, M. (2009). *How to Research* (3rd ed.). Maidenhead & NY: Open University Press & McGraw-Hill Education.
- Piantanida, M. & Garman, N. B. (2009). *The Qualitative Dissertation: a guide for students and faculty* (2nd ed.). London: SAGE.
- Nagel, E. (1979). *The Structure of Science: Problems in the Logic of Scientific Explanation* (2nd ed.). Cambridge (MA): Hackett Publishing Company, Inc.
- Popper, K. (2002). *The Logic of Scientific Discovery*. Routledge Clasic.
- Kuhn, T. (2012). *The Structure of Scientific Revolutions*. Chicago: Chicago University Press.

Cilji in kompetence:

Študentom podati metodološke temelje in različne veščine, potrebne za izvajanje raziskovalnih projektov na področju 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

Objectives and competences:

Provide students with methodological foundations and variety of skills required to carry out research projects in information technology.

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

Predvideni študijski rezultati:

Znanje in razumevanje:

- osnovnih raziskovalnih konceptov
- raziskovalnih metod in tehnik za raziskovanje na področju informacijskih tehnologij
- ključnih raziskovalnih vprašanj na področju informacijskih tehnologij
- kako načrtovati in izvajati raziskovalno delo
- kako pripraviti pregled raziskovalne literature za določeno raziskovalno področje
- kako vrednotiti raziskovalne ideje in predloge
- etičnih raziskovalnih praks

Ključne veščine za:

- izbiro primernih raziskovalnih metod in tehnik za dani raziskovalni problem
- pisanje učinkovitih raziskovalnih predlogov in člankov
- učinkovito predstavljanje raziskovalnih rezultatov
- vrednotenje raziskovalnih idej in predlogov
- zbiranje, analizo in interpretacijo podatkov

Intended learning outcomes:

Knowledge and understanding:

- basic research concepts
- research methods and techniques relevant to information technology research
- key issues in information technology research
- how to design and carry out research work
- how to review research literature on a specific research topic
- how to evaluate research ideas and proposals
- ethical research practices

Key skills to:

- select proper research methods and tools for given research needs
- write effective research proposals and papers
- make efficient presentations of research results
- evaluate research ideas and proposals
- collect, analyse and interpret relevant data

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 problemov)
- konzultacije
- priprava seminarja
- 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, problem solving)
- consultations
- seminar work
- *independent study*

Delež (v %) /

Weight (in %)

Načini ocenjevanja:**Assessment:**

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

Type (examination, oral, coursework, project):

- seminarska naloga in njen zagovor

100

- written seminar work and its defence

Reference nosilca / Lecturer's references:

- ROJKO, Katarina, JELOVAC, Dejan. Challenges due to excessive amount of online data and (mis)information. V: STRAHONJA, Vjeran (ur.), KIRINIĆ, Valentina (ur.). *CECIIS : Central European Conference on Information and Intelligent Systems : 29th international conference, September 19th-21st, 2018, Varaždin, Croatia*, (Central European Conference on Information and Intelligent Systems (Print), ISSN 1847-2001), (Central European Conference on Information and Intelligent Systems (Online), ISSN 1848-2295). Varaždin: Faculty of Organization and Informatics. 2018, str. 33-38, graf. prikazi. [COBISS.SI-ID [2048535571](#)].
- ROJKO, Katarina, JELOVAC, Dejan. Human role in factories of the future. V: *Zbornik radova, Prva međunarodna naučna konferencija o digitalnoj ekonomiji DIEC 2018*, Visoka škola "Internacionalna poslovno-informaciona akademija" Tuzla, maj 2018. Tuzla: Off-set d.o.o. 2018, str. 165-178, ilustr. [COBISS.SI-ID [2048522259](#)].
- JELOVAC, Dejan, ORLIĆ, Ranko, SUKLAN, Jana, SRŠEN, Cvetko. Organisational culture measurement : an empirical study of local and regional similarities and differences in case of Post of Slovenia ltd. *Innovative issues and approaches in social sciences*, ISSN 1855-0541, 2016, vol. 9, no. 2, str. 8-34
- GRUŠOVNIK, Rosana, JELOVAC, Dejan. The Impact of managerial multicultural competences on company's competitive advantage in global economy. *Innovative issues and approaches in social sciences*, ISSN 1855-0541, 2014, vol. 7, no. 3, str. 58-89.
- JELOVAC, Dejan. The impact of corporate social responsibility in the context of small and medium enterprise. *Innovative issues and approaches in social sciences*, ISSN 1855-0541, May 2012, vol. 5, no. 2, 21-35.
- JELOVAC, Dejan, MAŠKE, Matjaž. An empirical study of transformational leadership in Slovenian entrepreneurship. *Innovative issues and approaches in social sciences*, ISSN 1855-0541, 2012, vol. 5, no. 3, str. 65-82
- JELOVAC, Dejan, WAL, Zeger van der, JELOVAC, Ana. Business and government ethics in the new and old EU: an empirical account of public-private value congruence in Slovenia and the Netherlands. *Journal of Business Ethics*, ISSN 0167-4544, 2011, vol. 103, no. 1, str. 127-141.
- JELOVAC, Dejan, REK, Mateja. *Komuniciranje v medkulturnem okolju*. Ljubljana: Vega, 2010. 183 str., ilustr. ISBN 978-961-92951-2-0.
- JELOVAC, Dejan. The historical-cultural background of public administration values : the case of Slovenia = Zgodovinsko-kulturno ozadje vrednot v javni upravi : primer Slovenija. *Raziskave in razprave*, ISSN 1855-6280, 2010, letn. 3, št. 3, str. 75-101.
- ADAM, Frane, JELOVAC, Dejan, REK, Mateja. Economic cultural (in)compatibility: old and new EU members in comparison. V: *PODMENIK, Darka (ur.)*. Sociokulturni in organizacijski vidiki prenosa znanja. Ljubljana: Inštitut za razvojne in strateške analize, 2008, str. [107]-134.