

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Ime predmeta: METODOLOGIJA RAZISKOVANJA
Course title: RESEARCH METHODOLOGY

Študijski program in stopnja Study programme and cycle	Študijska smer Study option	Letnik Year of study	Semester Semester
LOGISTIKA SISTEMOV 2. stopnja		1.	1.
SYSTEM LOGISTICS 2 nd degree		1.	1.

**Vrsta predmeta (obvezni ali izbirni) /
Course type (compulsory or elective)**

OBVEZNI
COMPULSORY

Univerzitetna koda predmeta / University course code:

MAG

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje Clinical training	Druge oblike študija Other forms of study	Samost. delo Individual work	ECTS
18 a-P 2 e-P					70	3

Nosilec predmeta / Course coordinator:

REBEKA KOVAČIČ LUKMAN

Jeziki /Languages:

Predavanja / Lectures: SLOVENSKI/SLOVENE

Vaje / Tutorial: SLOVENSKI/SLOVENE

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

Ni pogojev.

Prerequisites for enrolling in the course or for performing study obligations:

None.

Vsebina (kratek pregled učnega načrta):

1. Metodologija raziskovanja:
 - Pomen in cilji raziskav, motivacija za raziskovanje, vrste raziskav, raziskovalni pristopi, raziskovalni proces, kriteriji za dobro raziskavo
 - Definicija raziskovalnega izziva, priprava načrta raziskovanja, hipoteze, načrtovanje in izbor ustreznih metod, kvantitativne in kvalitativne metode
2. Podatki in podatkovne baze
 - Science in Nature Research, Web of Science, Scopus, Proquest, Sciencedirect, ...
 - Procesiranje in analiziranje podatkov
 - Ustrezna navedba virov
3. Interpretacija, komuniciraje raziskovalnih rezultatov, tako pisno kot ustno (prezentacija)

Content (syllabus outline):

1. Research methodology:
 - Importance and goals of research, motivation for research, types of research, research approaches, research process, criteria of good research
 - Definition of the research challenge, preparation of the research plan, hypotheses, planning and selection of appropriate methods, quantitative and qualitative methods
2. Data and databases
 - Science in Nature Research, Web of Science, Scopus, Proquest, Sciencedirect, ...
 - Data processing and analysis
 - Appropriate citation of sources
3. Interpretation, communication of research results, both written and oral (presentation)

<ul style="list-style-type: none"> • Tehnike interpretacije • Priprava pisnih poročil <p>4. Plagiarizem in etika</p> <ul style="list-style-type: none"> • Razumevanje raziskovalne etike • Vrste in vzroki plagiarizma, sankcije, orodja za razpoznavanje plagiarizma. 	<ul style="list-style-type: none"> • Interpretation techniques • Preparation of written reports <p>4. Plagiarism and ethics</p> <ul style="list-style-type: none"> • Understanding research ethics • Types and causes of plagiarism, sanctions, tools for detecting plagiarism.
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Temeljni literatura in viri / Reading materials:

E-gradivo predmeta.

Carey, S. S. (2011). *A beginner's guide to scientific method*. 4th ed. Wadsworth: Cengage Learning.

Gauch Jr., H. G. (2003). *Scientific method in practice*. 1st ed. Cambridge: University Press.

Kothari, C. R. (2013). *Research methodology: Methods and Techniques*. 3rd edition. New Age International Pvt Ltd Publishers

Cilji in kompetence:

- Poglobiti znanje iz področja raziskovalnega dela in metodologije raziskovanja
- Poglobiti in pridobiti nova znanja iz področja procesiranja in analiziranja podatkov ter ustrezne uporabe podatkovnih baz
- Poglobiti znanja iz področij komunikacije in interpretacije raziskovalnih rezultatov
- Pridobiti nova znanja o etiki v raziskovanju in razjasnitve o originalnosti raziskovalnega dela ter plagiarizmu (tudi orodja za razpoznavanje plagiarizma)

Kompetence, ki jih študentke/študenti osvojijo:

- Študent/ka razume metodologijo raziskovanja in jo zna uporabiti pri svojem raziskovalnem delu
- Študent/ka je sposobna analizirati in procesirati podatke, uporabljati podatkovne baze, ki ji omogočajo potrditev/zavrnitev hipotez
- Študent/ka zna ustrezno interpretirati pridobljene rezultate in jih komunicirati v pisni in/ali ustni obliki
- Študent/ka razume pomen raziskovalne etike in zna z različnimi orodji zaznati plagiarizem

Objectives and competences:

- To deepen knowledge in the field of research work and research methodology
- To deepen and acquire new knowledge in the field of data processing and analysis and the appropriate use of databases
- To deepen knowledge in the fields of communication and interpretation of research results
- Acquire new knowledge about ethics in research and deepen the knowledge about the originality of research and plagiarism (also tools for detecting plagiarism)

Competences acquired by students:

- The student understands the research methodology and knows how to use it in his / her research work
- The student is able to analyze and process data, use databases that allow him to confirm / reject hypotheses
- The student is able to properly interpret the obtained results and communicate them in written and / or oral form
- The student understands the importance of research ethics and can detect plagiarism with various tools

Predvideni študijski rezultati:

Študentka/študent bo zmožna/zmožen:

- uporabiti metodologijo raziskovanja pri svojem raziskovalnem delu, identificirati raziskovalne vrzeli
- demonstrirati znanje o izbranih metodologijah in raziskovalnih metodah

Intended learning outcomes:

The student will be able to:

- apply research methodology in their research work, identify research gaps
- demonstrate knowledge of selected methodologies and research methods
- analyze and process data to confirm / reject their hypotheses and also use appropriate databases

<ul style="list-style-type: none"> • analizirati in procesirati podatke za potrditev/zavrnitev svojih hipotez in tudi uporabiti ustrezne podatkovne baze • uporabiti različne podatkovne baze in pridobivati podatke za svoje raziskovalno delo • sposobna interpretirati in skomunicirati svoje raziskovalne rezultate, tako v pisni, kot tudi v ustni obliki • uporabiti kritičen razmislek pri evalvaciji raziskovalnih rezultatov • uporabiti etične usmeritve pri svojem raziskovalnem delu in se izogibati plagiarizmu 	<ul style="list-style-type: none"> • use different databases and obtain data for their research work • able to interpret and communicate their research results, both in writing and oral presentations • use critical thinking when evaluating research results • apply ethical guidelines in their research work and avoid plagiarism
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Metode poučevanja in učenja:

Predavanja: Prednost bomo dali inovativnim načinom učenja in poučevanja ter novim didaktičnim pristopom. Predavanja bodo temeljila na t.i. sodelovalnem učenju, saj bi radi v okviru predmeta dosegli najvišjo kognitivno raven razumevanja (načrtovanje, kreiranje, inoviranje).

Learning and teaching methods:

Lectures: We will give a priority to innovative ways of learning and teaching and new didactic approaches. Lectures will be based on so called: collaborative learning, as we would like to achieve the highest cognitive level of understanding (planning, creation, innovation) within the subject.

Načini ocenjevanja:	Delež (v %) / Share (in %)	Assessment methods:
<ul style="list-style-type: none"> • Izpit (pisni) • Opravljene obveznosti e-predavanj so pogoj za pristop k izpitu. 	100%	<ul style="list-style-type: none"> • Exam (written) • Completed e-lecture obligations are a condition for taking the exam.

Reference nosilca / Course coordinator's references:

1. OMAHNE, Vasja, KRAJNC, Damjan, KOVAČIČ LUKMAN, Rebeka. A critical overview of scientific publications on life cycle assessment in transport-related topics. *Clean technologies and environmental policy*. [Online ed.]. Apr. 2021, vol. 23, iss. 3, str. 711-730, ilustr. ISSN 1618-9558. <https://doi.org/10.1007/s10098-020-01954-4>, DOI: [10.1007/s10098-020-01954-4](https://doi.org/10.1007/s10098-020-01954-4). [COBISS.SI-ID [61009667](https://doi.org/10.1007/s10098-020-01954-4)], [JCR, SNIP, WoS, Scopus]
2. VIDERGAR, Petra, PERC, Matjaž, KOVAČIČ LUKMAN, Rebeka. A survey of the life cycle assessment of food supply chains. *Journal of cleaner production*. [Online ed.]. 1 Mar. 2021, vol. 286, str. [1]-10, ilustr. ISSN 1879-1786. <https://doi.org/10.1016/j.jclepro.2020.125506>, DOI: [10.1016/j.jclepro.2020.125506](https://doi.org/10.1016/j.jclepro.2020.125506). [COBISS.SI-ID [61020419](https://doi.org/10.1016/j.jclepro.2020.125506)], [JCR, SNIP, WoS do 14. 8. 2021: št. citatov (TC): 3, čistih citatov (CI): 2, čistih citatov na avtorja (CIAu): 0,67, Scopus do 1. 9. 2021: št. citatov (TC): 3, čistih citatov (CI): 2, čistih citatov na avtorja (CIAu): 0,67]
3. KOVAČIČ LUKMAN, Rebeka, OMAHNE, Vasja, TAG EL SHEIKH, Lobna, GLAVIČ, Peter. Integrating sustainability into logistics oriented education in Europe. *Sustainability*. Feb. 2021, vol. 13, iss. 4, str. [1]-24, ilustr. ISSN 2071-1050. <https://doi.org/10.3390/su13041667>, DOI: [10.3390/su13041667](https://doi.org/10.3390/su13041667). [COBISS.SI-ID [61031939](https://doi.org/10.3390/su13041667)], [JCR, SNIP, WoS, Scopus]

4. KOVAČIČ LUKMAN, Rebeka, OMAHNE, Vasja, KRAJNC, Damjan. Sustainability assessment with integrated circular economy principles : a toy case study. *Sustainability*. Apr. 2021, vol. 13, iss. 7, str. [1]-22, ilustr. ISSN 2071-1050. <https://doi.org/10.3390/su13073856>, DOI: [10.3390/su13073856](https://doi.org/10.3390/su13073856). [COBISS.SI-ID [61037827](https://doi.org/10.3390/su13073856)], [JCR, SNIP, WoS do 9. 8. 2021: št. citatov (TC): 1, čistih citatov (CI): 1, čistih citatov na avtorja (CIAu): 0,33, Scopus do 1. 9. 2021: št. citatov (TC): 1, čistih citatov (CI): 1, čistih citatov na avtorja (CIAu): 0,33]

5. KOVAČIČ LUKMAN, Rebeka, GLAVIČ, Peter, CARPENTER, Angela, VIRTIČ, Peter, et al. Sustainable consumption and production : research, experience, and development : the Europe we want. *Journal of cleaner production*. [Print ed.]. 2016, vol. 138, str. 139-147. ISSN 0959-6526. DOI: [10.1016/j.jclepro.2016.08.049](https://doi.org/10.1016/j.jclepro.2016.08.049). [COBISS.SI-ID [1024244572](https://doi.org/10.1016/j.jclepro.2016.08.049)], [JCR, SNIP, WoS do 19. 8. 2021: št. citatov (TC): 39, čistih citatov (CI): 38, čistih citatov na avtorja (CIAu): 9,50, Scopus do 12. 8. 2021: št. citatov (TC): 51, čistih citatov (CI): 50, čistih citatov na avtorja (CIAu): 12,50]