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| **UČNI NAČRT PREDMETA / COURSE SYLLABUS** |
| **Ime predmeta:** | METODOLOGIJA RAZISKOVANJA |
| **Course title:** | RESEARCH METHODOLOGY |
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| **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 2nd degree |  | 1. | 1. |
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| **Vrsta predmeta (obvezni ali izbirni) /** **Course type (compulsory or elective)** | OBVEZNI |
| COMPULSORY |
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| **Univerzitetna koda predmeta / University course code:** | MAG |
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| **Predavanja****Lectures** | **Seminar****Seminar** | **Vaje****Tutorial** | **Klinične vaje****Clinical training** | **Druge oblike študija****Other forms of study** | **Samost. delo****Individual work** |  | **ECTS** |
| 18 a-P2 e-P |  |  |  |  | 70 |  | 3 |
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| **Nosilec predmeta / Course coordinator:** | **REBEKA KOVAČIČ LUKMAN** |
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| **Jeziki /Languages:** | **Predavanja / Lectures:** | SLOVENSKI/SLOVENE |
| **Vaje / Tutorial:** | SLOVENSKI/SLOVENE |
| **Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:** |  | **Prerequisites for enrolling in the course or for performing study obligations:** |
| Ni pogojev. |  | None. |
| **Vsebina (kratek pregled učnega načrta):**  |  | **Content (syllabus outline):** |
| 1. Metodlogija 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.
1. Podatki in podatkovne baze
* Science in Nature Research, Web of Science, Scopus, Proquest, Sciencedirect, ...
* Procesiranje in analiziranje podatkov
* Ustrezna navedba virov
1. Interpretacija, komuniciraje raziskovalnih rezultatov, tako pisno kot ustno (prezentacija)
* Tehnike interpretacije
* Priprava pisnih poročil
1. Plagiarizem in etika
* Razumevanje raziskovalne etike
* Vrste in vzroki plagiarizma, sankcije, orodja za razpoznavanje plagiarizma.
 |  | 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.
1. Data and databases
* Science in Nature Research, Web of Science, Scopus, Proquest, Sciencedirect, ...
* Data processing and analysis
* Appropriate citation of sources
1. Interpretation, communication of research results, both written and oral (presentation)
* Interpretation techniques
* Preparation of written reports
1. Plagiarism and ethics
* Understanding research ethics
* Types and causes of plagiarism, sanctions, tools for detecting plagiarism.
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| **Temeljni literatura in viri / Reading materials:** |
| Kothari, C. R. (2013). Research methodology: Methods and Techniques. 3rd edition. New Age International Pvt Ltd Publishers.Lebrun, J.L. (2007). *Scientific writing: A reader and writer´s guide*. Singapure: World Scientific Publishing.Godwill, E.A. (2015). *Fundamentals of Research Methodology: A Holistic Guide for Research Completion, Management, Validation and Ethics*. New York: Nova Science Publishers.Hiebert, J., Cai, J., Hwang, S., Morris, A.K., Hohensee, C. (2023). *Doing Research. A New Researcher´s Guide*. Cham: Springer Nature. Košmerl, T. (2021). Kombinirani raziskovalni pristopi kot način združevanja kvalitativnih in kvantitativnih metod. Sodobna pedagogika, 72(1), 88-105.  |
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| **Cilji in kompetence:** |  | **Objectives and competences:** |
| * 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 metodlogijo 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.
 |  | * 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 deepend 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.
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| **Predvideni študijski rezultati:** |  | **Intended learning outcomes:** |
| Študentka/študent bo zmožna/zmožen:* uporabiti metodologijo raziskovanja pri svojem raziskovalnem delu, identificirati raziskovalne vrzeli,
* demonstrirati znanje o izbranih metodlogijah in raziskovalnih metodah,
* 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.
 |  | 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,
* 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:** |  | **Learning and teaching methods:** |
| 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). |  | 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:** |
| * Izpit (pisni)
* Opravljene obveznosti e-predavanj so pogoj za pristop k  izpitu.
 | 100% | * Exam (written)
* Completed e-lecture obligations are a condition for taking the exam.
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| **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://dx.doi.org/10.1007/s10098-020-01954-4). [COBISS.SI-ID [61009667](https://plus.si.cobiss.net/opac7/bib/61009667?lang=sl)], [[JCR](https://plus.si.cobiss.net/opac7/jcr?c=sc=1618-954X+and+PY=2019&r1=true&lang=sl), [SNIP](https://plus.si.cobiss.net/opac7/snip?c=sc=1618-954X+and+PY=2019&r1=true&lang=sl), [WoS](http://gateway.isiknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=Alerting&SrcApp=Alerting&DestApp=WOS&DestLinkType=FullRecord&KeyUT=000577237800001), [Scopus](http://www.scopus.com/inward/record.url?partnerID=2dRBettD&eid=2-s2.0-85092543140)].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://dx.doi.org/10.1016/j.jclepro.2020.125506). [COBISS.SI-ID [61020419](https://plus.si.cobiss.net/opac7/bib/61020419?lang=sl)], [[JCR](https://plus.si.cobiss.net/opac7/jcr?c=sc=0959-6526+and+PY=2019&r1=true&lang=sl), [SNIP](https://plus.si.cobiss.net/opac7/snip?c=sc=0959-6526+and+PY=2019&r1=true&lang=sl), [WoS](http://gateway.isiknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=Alerting&SrcApp=Alerting&DestApp=WOS&DestLinkType=FullRecord&KeyUT=000614537000015) do 14. 8. 2021: št. citatov (TC): 3, čistih citatov (CI): 2, čistih citatov na avtorja (CIAu): 0,67, [Scopus](http://www.scopus.com/inward/record.url?partnerID=2dRBettD&eid=2-s2.0-85098148170) 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://dx.doi.org/10.3390/su13041667). [COBISS.SI-ID [61031939](https://plus.si.cobiss.net/opac7/bib/61031939?lang=sl)], [[JCR](https://plus.si.cobiss.net/opac7/jcr?c=sc=2071-1050+and+PY=2019&r1=true&lang=sl), [SNIP](https://plus.si.cobiss.net/opac7/snip?c=sc=2071-1050+and+PY=2019&r1=true&lang=sl), [WoS](http://gateway.isiknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=Alerting&SrcApp=Alerting&DestApp=WOS&DestLinkType=FullRecord&KeyUT=000624819800001), [Scopus](http://www.scopus.com/inward/record.url?partnerID=2dRBettD&eid=2-s2.0-85100637262)].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://dx.doi.org/10.3390/su13073856). [COBISS.SI-ID [61037827](https://plus.si.cobiss.net/opac7/bib/61037827?lang=sl)], [[JCR](https://plus.si.cobiss.net/opac7/jcr?c=sc=2071-1050+and+PY=2019&r1=true&lang=sl), [SNIP](https://plus.si.cobiss.net/opac7/snip?c=sc=2071-1050+and+PY=2019&r1=true&lang=sl), [WoS](http://gateway.isiknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=Alerting&SrcApp=Alerting&DestApp=WOS&DestLinkType=FullRecord&KeyUT=000638918000001) do 9. 8. 2021: št. citatov (TC): 1, čistih citatov (CI): 1, čistih citatov na avtorja (CIAu): 0,33, [Scopus](http://www.scopus.com/inward/record.url?partnerID=2dRBettD&eid=2-s2.0-85104026149) 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://dx.doi.org/10.1016/j.jclepro.2016.08.049). [COBISS.SI-ID [1024244572](https://plus.si.cobiss.net/opac7/bib/1024244572?lang=sl)], [[JCR](https://plus.si.cobiss.net/opac7/jcr?c=sc=0959-6526+and+PY=2016&r1=true&lang=sl), [SNIP](https://plus.si.cobiss.net/opac7/snip?c=sc=0959-6526+and+PY=2016&r1=true&lang=sl), [WoS](http://gateway.isiknowledge.com/gateway/Gateway.cgi?GWVersion=2&SrcAuth=Alerting&SrcApp=Alerting&DestApp=WOS&DestLinkType=FullRecord&KeyUT=000386739000001) do 19. 8. 2021: št. citatov (TC): 39, čistih citatov (CI): 38, čistih citatov na avtorja (CIAu): 9,50, [Scopus](http://www.scopus.com/inward/record.url?partnerID=2dRBettD&eid=2-s2.0-84992593096) do 12. 8. 2021: št. citatov (TC): 51, čistih citatov (CI): 50, čistih citatov na avtorja (CIAu): 12,50]. |