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 2nd 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:	**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. 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) • Tehnike interpretacije	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) • Interpretation techniques

• Priprava pisnih poročil 4. Plagiarizem in etika • Razumevanje raziskovalne etike • Vrste in vzroki plagiarizma, sankcije, orodja za razpoznavanje plagiarizma.	• Preparation of written reports 4. Plagiarism and ethics • Understanding research ethics • Types and causes of plagiarism, sanctions, tools for detecting plagiarism.

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:	**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.

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,	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,

• 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.	• 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.

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.

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. [COBISS.SI-ID 61009667], [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. [COBISS.SI-ID 61020419], [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. [COBISS.SI-ID 61031939], [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. [COBISS.SI-ID 61037827], [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. [COBISS.SI-ID 1024244572], [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].