UČNI NAČRT PREDMETA / COURSE SYLLABUS	
Ime predmeta:	UVOD V RAZISKOVALNO DELO
Course title:	INTRODUCTION INTO THE RESEARCH WORK

Študijski program in stopnja Study programme and cycle	Študijska smer Study option	Letnik Year of study	Semester Semester
LOGISTIKA SISTEMOV 1. stopnja		3.	5.
SYSTEM LOGISTICS 1st degree		3.	5.

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

OBVEZNI
COMPULSORY

Univerzitetna koda predmeta / University course code:

UN

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje Clinical training	Druge oblike študija Other forms of study	Samost. delo Individual work	ECTS
12 a-P 8 e-P		12 a-V 8 e-V			140	6

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):

1. Uvod v raziskovalno metodologijo (pomen raziskovanja, cilji raziskovanja, motivacija za raziskovanje, raziskovalne metode – raziskovalne metodologije (razlike), raziskovalni proces, kriteriji za dobro raziskovalno delo oz. raziskavo
2. Načrtovanje raziskave (pregled literature (iskanje in navajanje, Endnote, baze člankov), zbiranje podatkov
3. Zasnova raziskave (identifikacija raziskovalnega izziva, raziskovalna vprašanja in hipoteze, potebe po raziskavi, cilji, namen raziskave)
4. Metode (raziskovalne in znanstvene metode, kvalitativne in kvantitativne metode, ...)

Content (syllabus outline):

1. Introduction to the research methodology (meaning of research, objective of research, motivation for research, research methods vs. research methodologies, research process, criteria of good research
2. Research design (literature review (search and citing, Endnote, databases), data search and data collection
3. A conceptualization of research (identification of research challenge, research questions and hypotheses, needs for the research, goals)
4. Methods (research and scientific methods, quantitative, qualitative, …)
5. Backgrounds of fake news, evaluation of data, critical evaluation of research and data

5. Ozadje lažnih novic (fake news), preverjanje podatkov in kritična evalvacija raziskav in podatkov	

Temeljni literatura in viri / Reading materials:

- Gradivo in e-gradivo (skripta, zapiski predavanj)
- Research Methodology, An Introduction Wayne Goddard& Stuart Melville.

Osnovna literatura so znanstveni članki in knjige po izboru mentorja./ The main literature are research articles and books selected by the mentor.

Cilji in kompetence:

Cilj predmeta:
- Pridobiti, izboljšati in poglobiti znanje iz področja raziskovalnega dela in procesa raziskovanja
- Pridobiti nova znanja, spretnosti in veščine na področju načrtovanja raziskav
- Poglobiti znanja iz področja raziskovalnih metod
- Pridobiti nova znanja, spretnosti in veščine na področju kritične evalvacije raziskav, tudi sposobnost razločevanja med znanstveno podprtimi raziskavami in t.i. lažnimi novicami

Kompetence, ki jih študentke/študenti osvojijo:

- Študent/ka razume pomen raziskovanja
- Študent/ka zna pojasniti in razume razliko med raziskovalnimi metodami in metodlogijami ter ustrezno znanje uporabiti pri svojem raziskovalnem delu
- Študent/ka je sposobna identificirati raziskovalni izziv, definirati raziskovalne cilje in namen raziskave ter oblikovati raziskovalna vprašanja in hipoteze
- Študent/ka zna uporabiti ustrezne raziskovalne metode pri svojem raziskovalnem delu
- Študent/ka zna uporabiti različne podatkovne baze in zna ustrezno pridobivati podatke za svoje raziskovalno delo
- Študent/ka zna voditi, organizirati, načrtovati raziskave in sprejemati odločitve o izbranih metodah in metodologijah dela
- Študent/ka je sposobna razpoznati ključne elemente „lažnih novic" in je sposobna opraviti kritično presojo „lažnih novic" v

Objectives and competences:

• Acquire, improve and deepen the knowledge in the field of research work and research process
• Acquire new knowledge, skills and capabilities in the field of research planning
• To deepen the knowledge in the field of research methods
• Acquire new knowledge, skills and capabilities in the field of critical evaluation of research, including the ability to distinguish between scientifically supported research and fake news

Competences acquired by students:
• The student understands the importance of research
• The student is able to explain and understand the difference between research methods and methodologies and is able to use the relevant knowledge in their research work
• The student is able to identify the research challenge, define the research goals and purpose of the research and formulate research questions and hypotheses
• The student knows how to use the appropriate research methods in his / her research work
• The student knows how to use different databases and knows how to properly obtain data for their research work
• The student is able to lead, organize, plan research and make decisions on selected methods and methodologies
• The student is able to recognize the key elements of "fake news" and is able to critically evaluate "fake news" in a comparison with scientific findings and research

primerjavi z znanstvenimi izsledki in dognanji.	

Predvideni študijski rezultati:

Študentka/študent bo:
- Uporabil različne kvantitativne in kvalitative metode pri svojem raziskovalnem delu
- Razlikoval med raziskovalnimi metodami in metodologijami in to uporabil na realnih primerih
- Ocenil in presodil ustrezno izbiro raziskovalnih metod pri svojem delu
- Identificiral raziskovalni izziv
- Opredelil raziskovalne cilje in namen raziskave
- Oblikoval in načrtoval raziskovalna vprašanja in hipoteze
- Uporabil različne podatkovne baze in pridobivati podatke za svoje raziskovalno delo
- Vodil, organiziral in načrtoval raziskave
- Evalviral in vrednotil „lažne novice" v primerjavi z znanstvenimi izsledki in dognanji.
- Povzemal in pojasnil izsledke svojega raziskovalnega dela
- Uporabljal različna programska orodja v podatkovnih bazah

Intended learning outcomes:

The student will be able to:
- Use various quantitative and qualitative methods in his/her research work
- Distinguish between research methods and methodologies and apply this to real cases
- Assess and judge the appropriate choice of research methods in their work
- Identify a research challenge
- Define the research objectives and purpose of the research
- Design and plan research questions and hypotheses
- Use various databases and retrieve data for their research work
- Conduct, organize and plan the research
- Evaluate "fake news" in comparison with scientific findings and findings.
- Summarize and explain the results of his/her research work
- ▪ - Use various software tools for databases

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).
Vaje: vaje bodo temeljile na skupinskem in individualnem delu. Študenti se bodo naučili uporabe različnih programskih orodij.

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.
Exercises: Exercises will be based on group and individual work. Students will learn to use a variety of software tools.

Načini ocenjevanja:	Delež (v %) / Share (in %)	Assessment methods:
Opravljene obveznosti e-vaj in e-predavanj so pogoj za pristop k izpitu		Successful completion of e-lectures and e-tutorials is a prerequisite for entering the exam.

Pripravljen osnutek načrta raziskovalnega dela	40 %	Prepared a draft of the research work
Pisni izpit	50 %	Written exam
Ustni izpit	10 %	Oral 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]