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| **UČNI NAČRT PREDMETA / COURSE SYLLABUS** |
| **Ime predmeta:** | RAČUNALNIŠTVO V LOGISTIKI |
| **Course title:** | COMPUTER SCEINCE IN LOGISTICS |
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| **Študijski program in stopnja****Study programme and cycle** | **Študijska smer****Study option** | **Letnik****Year of study** | **Semester****Semester** |
| LOGISTIKA SISTEMOV 1. stopnja |  | 1. | 1. |
| SYSTEM LOGISTICS 1st degree |  | 1. | 1. |
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| **Vrsta predmeta (obvezni ali izbirni) /** **Course type (compulsory or elective)** | OBVEZNI |
| COMPULSORY |
|  |  |
| **Univerzitetna koda predmeta / University course code:** | UN |
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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** |
| 12 a-P10 e-P |  |  14 e-V 24 a-V |  |  | 120 |  | 6 |
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| **Nosilec predmeta / Course coordinator:** | **ROMAN GUMZEJ** |
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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. Logistični informacijski sistemi (LIS): vloga, naloge, struktura, komponente in integracija glede na strukturo in nivoje odločanja v podjetju.2. Avtomatizirana obdelava podatkov v logistiki: zbiranje, hramba, obdelava in posredovanje logističnih podatkov.3. Komponente računalniških LIS: računalniška strojna, komunikacijska, programska, podatkovna, organizacijska oprema in osebje.4. Računalniško podprto inženirstvo LIS: planiranje virov, operacij in aktivnosti (delo s preglednicami, osnove programiranja). |  | 1. Logistics information systems (LIS): role, tasks, structure, components and integration considering the structure and levels of decision making in a company.2. Automated data processing in logistics: collection, storage, processing and dissemination of logistic data.3. Computer-based LIS components: computer hardware, netware, software, dataware, orgware and liveware.4. Computer-aided LIS engineering: resource, operation and activity planning. |
| **Temeljni literatura in viri / Reading materials:** |
| Grant, D., Lambert, D., Stock, J., & Ellram, L. (2006). Fundamentals of Logistics Management. McGraw-Hill, Berkshire, UK, european edition.Gumzej, R. (2024). Računalništvo in informatika v logistiki, Celje: Fakulteta za logistiko. (<https://plus.cobiss.net/cobiss/si/sl/bib/179481091>)Rainer, R; K. & Turban, E. (2008). Introduction to Information Systems: Supporting and Transforming Business. John Wiley and Sons, 2nd edition.Kerzner, H. (2003). Project Management: A Systems Approach to Planning, Scheduling, and Controlling, 8th Ed., Wiley. ISBN 0-471-22577-0. White, R. (2006). How Computers Work. QuE. |
| **Cilji in kompetence:** |  | **Objectives and competences:** |
| Cilji predmeta so:* planiranje LIS in ciljna uporaba IT za avtomatizirano obdelavo podatkov v logistiki.

Kompetence, ki jih študenti osvojijo:* poznavanje konceptov LIS s pridruženimi nivoji odločanja v podjetju,
* razumevanje osnovnih konceptov IT,
* računalniško podprto načrtovanje LIS.
 |  | Course objectives are:* LIS planning and targeted use of IT for automated data processing in logistics.

Competences acquired by students:* knowing the LIS concepts with associated levels of enterprise decision making,
* understanding of IT basic concepts,
* computer aided LIS design.
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| **Predvideni študijski rezultati:** |  | **Intended learning outcomes:** |
| Študent bo po zaključku predmeta zmožen:* aplicirati osnovno terminologijo računalništva v logistiki,
* planirati operacije in aktivnosti v podjetju na osnovi logističnih podatkov,
* izbrati ustrezno računalniško opremo za logistične aplikacije,
* napredne uporabe OAS in CAD programske opreme.
 |  | Upon completion of the course a student will be capable of:* applying fundamental computer science terms in logistics,
* planning enterprise operations and activities based on logistic data,
* selecting appropriate computing resources for logistics applications,
* advanced use of OAS and CAD software.
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| **Metode poučevanja in učenja:** |  | **Learning and teaching methods:** |
| Predavanja: pri predavanjih študenti spoznajo teoretične osnove predmeta. Predavanja potekajo v živo v predavalnici pa tudi v obliki e-predavanj na videokonferenčni način ter preko namenskih e-učilnic v e-učnem okolju.Vaje: pri vajah študenti utrdijo teoretično znanje in se ga naučijo uporabiti. Vaje potekajo v živo v predavalnici pa tudi v obliki e-vaj na videokonferenčni način ter preko namenskih e-učilnic v e-učnem okolju. |  | Lectures: during lectures students are familiarised with the theoretical foundations of the course. Lectures take place live in the classroom as well as in the form of e-lectures via videoconferencing and dedicated e-classrooms in the e-learning environment.Tutorials: during tutorials students consolidate their theoretical knowledge and learn to apply it. The tutorials are held live in the classroom as well as in the form of e-tutorials via videoconferencing and dedicated e-classrooms in the e-learning environment. |
| **Načini ocenjevanja:** | Delež (v %) /Share (in %) | **Assessment methods:** |
| Način (pisni izpit, ustno izpraševanje, naloge, projekt):* raziskovalna naloga
* pisni izpit
 | 50%50% | Method (written or oral exam, coursework, project):* research project
* written exam
 |
| **Reference nosilca / Course coordinator's references:**  |
| 1. ŠINKO, Simona, GUMZEJ, Roman. Towards smart traffic planning by traffic simulation on microscopic level. International journal of applied logistics. [Online]. 2021, vol. 11, iss. 1, str. 1-17, ilustr. ISSN 1947-9581. https://www.igi-global.com/article/towards-smart-traffic-planning-by-traffic-simulation-on-microscopic-level/269705, DOI: 10.4018/IJAL.2021010101.
2. KMETEC, Anja, MLAKER KAČ, Sonja, GUMZEJ, Roman. How to estimate strategic partnerships on the basis of quality criteria in logistics systems. International journal of applied logistics. [Online]. 2021, vol. 11, iss. 1, str. 52-65, tabele. ISSN 1947-9581. https://www.igi-global.com/article/how-to-estimate-strategic-partnerships-on-the-basis-of-quality-criteria-in-logistics-systems/269708, DOI: 10.4018/IJAL.2021010104.
3. POLETAN JUGOVIĆ, Tanja, ČIŠIĆ, Dragan, GUMZEJ, Roman. Supply chain service quality improvement by e-marketplace automation. Promet. [Print ed.]. 2019, vol. 31, no. 2, str. 185-194, ilustr. ISSN 0353-5320. https://doi.org/10.7307/ptt.v31i2.3042, DOI: 10.7307/ptt.v31i2.3042. [COBISS.SI-ID 512990269], [JCR, SNIP, Scopus do 29. 11. 2020: št. citatov (TC): 1, čistih citatov (CI): 1, čistih citatov na avtorja (CIAu): 0,33]
4. GUMZEJ, Roman. Safety and security beyond industry 4.0. International journal of applied logistics. [Online]. 2022, vol. 12, iss. 1, str. 1-10, ilustr. ISSN 1947-9581. https://www.igi-global.com/article/safety-and-security-beyond-industry-40/287556, DOI: 10.4018/IJAL.287556.
5. GUMZEJ, Roman. Intelligent logistics systems for smart cities and communities. Cham, cop. 2021. XVII, 204 str., ilustr. Lecture notes in intelligent transportation and infrastructre. ISBN 978-3-030-81202-7, ISBN 978-3-030-81203-4. ISSN 2523-3440, ISSN 2523-3459. https://doi.org/10.1007/978-3-030-81203-4, DOI: 10.1007/978-3-030-81203-4.
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