## UČNI NAČRT PREDMETA / COURSE SYLLABUS

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| **Ime predmeta:** | PROBLEM IZBIRE PRISTANIŠČA IN NJEGOVE APLIKACIJE |
| **Course title:** | PORT CHOICE PROBLEM AND ITS APPLICATION |

| Študijski program in stopnja<br>Study programme and cycle | Študijska smer<br>Study option | Letnik<br>Year of study | Semester<br>Semester |
|---|---|---|---|
| LOGISTIKA SISTEMOV 3. stopnja | | 1. | 1. in 2. |
| SYSTEM LOGISTICS 3rd degree | | 1. | 1. in 2. |

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|---|---|
| **Vrsta predmeta (obvezni ali izbirni) /** | IZBIRNI |
| **Course type (compulsory or elective)** | ELECTIVE |

**Univerzitetna koda predmeta / University course code:**  DR

| Predavanja<br>Lectures | Seminar<br>Seminar | Vaje<br>Tutorial | | | Klinične vaje<br>Clinical training | Druge oblike študija<br>Other forms of study | Samost. delo<br>Individual work | ECTS |
|---|---|---|---|---|---|---|---|---|
| 20 | | AV | LV | RV | | | 160 | 6 |

**Nosilec predmeta / Course coordinator:**  TOMAŽ KRAMBERGER

**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. Spoznavanje s problemom PCP (Port Choice Problem). Študij relevantne znanstvene literature iz področja.<br>2. Študij metodoloških pristopov uporabljenih v delih iz znanstvene literature tega področja.<br>3. Uporaba metodlogij v konkretnem primeru.<br>4. Študija aplikacij rešitev na drugih področjih v logistiki in Transportu. | 1. Getting familiarized with the Port Choice Problem (PCP). Studying relevant scientific literature from this field.<br>2. Studying methodological approaches used in scientific sources from this field.<br>3. Applying methodologies to concrete cases.<br>4. Studying applications of solutions to other fields in logistics and transport. |

**Temeljni literatura in viri / Reading materials:**

Kronbak, Jacob, Cullinane, Kevin. Captive and Contestable Port Hinterlands - Modelling and Visualisation using GIS. The International Handbook of Maritime Economics. ed. / Kevin Cullinane. UK : Edward Elgar Publishing, Incorporated, 2010. p. 348-363.

Kramberger, Tomaž, Rupnik, Bojan, Štrubelj, Gregor, Prah, Klemen. Port hinterland modelling based on port choice. *Promet*, ISSN 0353-5320. [Print ed.], 2015, vol. 27, no. 3, str. 195-203.

Kramberger, Tomaž, Monios, Jason, Štrubelj, Gregor, Rupnik , Bojan. Using dry ports for port co-opetition: the case of adriatic ports. International Journal of Shipping and Transport Logistics.

Kramberger, Tomaž, Vojko Potočan, and Vesna Mia Ipavec. Sustainable Logistics and Strategic Transportation Planning. IGI Global, 2016. 1-511.

| **Cilji in kompetence:** | **Objectives and competences:** |
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| ▪ Študent spozna in razume problem imenovan Problem izbire pristanišča.<br>▪ Študent zna rešiti problem na katerikoli množici vhodnih podatkov.<br>▪ Študent se nauči iskati še druge možnosti uporabe rešitve PCP problema na drugih področjih Logistike in Transporta. | ▪ Student is acquainted with and understands the Port Choice Problem.<br>▪ Student can provide solutions to any set of input information.<br>▪ Student learns how to recognise other possible applications of solutions to PCP in other fields of logistics and transportation. |

| **Predvideni študijski rezultati:** | **Intended learning outcomes:** |
|---|---|
| Po zaključku predmeta bo študent sposoben<br>▪ Povezati teoretična znanja s področja predmetov študijskega programa in jih uporabiti za izvajanje zastavljenih nalog.<br>▪ Samostojno definirati problem in ga rešiti.<br>▪ Uporabiti metode reševanja PCP problema še na drugih področjih raziskovanja. | On completion of the course, the student will be able to:<br>▪ Consolidate theoretical knowledge gained in all the courses of the study programme and use it in solving different tasks.<br>▪ Independently define a problem and solve it.<br>▪ Apply methods used in solving PCP to other research fields. |

| **Metode poučevanja in učenja:** | **Learning and teaching methods:** |
|---|---|
| ▪ Avditorna predavanja.<br>▪ Raziskovalno delo z mentorjem.<br>▪ Samostojno raziskovalno delo. | ▪ Face-to-face lectures.<br>▪ Research work with a mentor.<br>▪ Individual research work. |

| **Načini ocenjevanja:** | Delež (v %) / Share (in %) | **Assessment methods:** |
|---|---|---|
| ▪ Ocena poročila, | 70% | ▪ Final report, |
| ▪ javna predstavitev. | 30% | ▪ public presentation. |

**Reference nosilca / Course coordinator's references:**

**1**. BUTTON, Kenneth John, CHIN, Anthony Thengheng, KRAMBERGER, Tomaž. Incorporating subjective elements into liners' seaport choice assessments. *Transport policy*, ISSN 0967-070X. [Print ed.], 2015, vol. 44, str. 125-133. [COBISS.SI-ID 512686141], [JCR, SNIP, WoS do 14. 11. 2015: št. citatov (TC): 0, čistih citatov (CI): 0, Scopus do 26. 8. 2015: št. citatov (TC): 0, čistih citatov (CI): 0].
**2.** KRAMBERGER, Tomaž, ŽEROVNIK, Janez, ŠTRUBELJ, Gregor, PRAH, Klemen. GIS technology as an environment for testing an advanced mathematical model for optimization of road maintenance. *Central European Journal of Operations Research*, ISSN 1435-246X, June 2013, vol. 21, issue 1-Supplement, str. 59-73, doi: 10.1007/s10100-012-0265-4. [COBISS.SI-ID 512429885], [JCR, SNIP, WoS do 17. 9. 2013: št. citatov (TC): 1, čistih citatov (CI): 0, Scopus do 31. 8. 2017: št. citatov (TC): 2, čistih citatov (CI): 1].
**3.** KRAMBERGER, Tomaž, DRAGAN, Dejan, PRAH, Klemen. A heuristic approach to reduce carbon dioxide emissions. *Proceedings of the Institution of Civil Engineers - Transport*, ISSN 0965-092X. [Print ed.], Okt. 2014, vol. 167, iss. 5, str. 296-305.http://www.icevirtuallibrary.com/content/article/10.1680/tran.11.00053, doi: 10.1680/tran.11.00053. [COBISS.SI-ID 512554557], [JCR, SNIP, WoS do 12. 1. 2015: št. citatov (TC): 1, čistih citatov (CI): 1, Scopus do 16. 6. 2015: št. citatov (TC): 1, čistih citatov (CI): 1].
**4.** BUTTON, Kenneth John, KRAMBERGER, Tomaž, VIZINGER, Tea, INTIHAR, Marko. Economic implications for Adriatic seaport regions of further opening of the Northern Sea Route. *Maritime economics & logistics*, ISSN 1479-294X. [Spletna izd.], Mar. 2017, vol. 19, iss. 1, str. 52-67, ilustr. http://www.palgrave-journals.com/mel/journal/vaop/ncurrent/abs/mel201525a.html, doi: 10.1057/mel.2015.25. [COBISS.SI-

ID 512702781], [JCR, SNIP, WoS do 2. 6. 2017: št. citatov (TC): 0, čistih citatov (CI): 0, Scopusdo 13. 5. 2017: št. citatov (TC): 0, čistih citatov (CI): 0].

**5.** KRAMBERGER, Tomaž, RUPNIK, Bojan, ŠTRUBELJ, Gregor, PRAH, Klemen. Port hinterland modelling based on port choice. *Promet*, ISSN 0353-5320. [Print ed.], 2015, vol. 27, no. 3, str. 195-203, ilustr.http://www.fpz.unizg.hr/traffic/index.php/PROMTT/article/view/1611, doi: 10.7307/ptt.v27i3.1611. [COBISS.SI-ID 512689725], [JCR, SNIP, WoS do 26. 2. 2017: št. citatov (TC): 2, čistih citatov (CI): 2, Scopus do 31. 8. 2017: št. citatov (TC): 4, čistih citatov (CI): 2].

**6.** BUTTON, Kenneth John, KRAMBERGER, Tomaž. European Union expansion and seaport efficiency in the North Adriatic. *Applied economics letters*, ISSN 1466-4291, vol. 22, no. 9, str. 700-703.http://www.tandfonline.com/doi/full/10.1080/13504851.2014.969822#.VGx2t2d49hI,
doi: 10.1080/13504851.2014.969822. [COBISS.SI-ID 512596541], [JCR, SNIP, WoS do 25. 6. 2017: št. citatov (TC): 1, čistih citatov (CI): 0, Scopus do 31. 8. 2017: št. citatov (TC): 1, čistih citatov (CI): 0].

**7.** DRAGAN, Dejan, VIZINGER, Tea, INTIHAR, Marko, KRAMBERGER, Tomaž, FOŠNER, Maja, PRAH, Klemen. Reconstruction of delivery positions in the city of Celje, Slovenia. *Transport problems : international scientific journal*, ISSN 1896-0596. [Printed ed.], 2013, vol. 8, iss. 2, str. 11-24. http://www.transportproblems.polsl.pl/pl/Archiwum/2013/zeszyt2/2013t8z2_02.pdf. [COBISS.SI-ID 512516157], [SNIP, Scopus do 17. 8. 2013: št. citatov (TC): 0, čistih citatov (CI): 0].

8. KRAMBERGER, Tomaž, KRAMAR, Uroš, ČURIN, Andreja, CEDILNIK, Marko, LIPIČNIK, Martin, TAJNŠEK, Viktor. Fiscal impact of electronic fee collection system on long-run efficiency. *Transport problems : international scientific journal*, ISSN 1896-0596. [Printed ed.], 2012, vol. 7, iss. 2, str. 5-13. http://transportproblems.polsl.pl/pl/Archiwum/2012/zeszyt2/2012t7z2_01.pdf. [COBISS.SI-ID 512414781], [SNIP, Scopus do 17. 5. 2013: št. citatov (TC): 0, čistih citatov (CI): 0].