

INFORMACIJSKA TEHNOLOGIJA V JAVNI UPRAVI

UČNI NAČRT PREDMETA/COURSE SYLLABUS

Predmet:	INFORMACIJSKA TEHNOLOGIJA V JAVNI UPRAVI
Course title:	INFORMATION TECHNOLOGIES IN PUBLIC ADMINISTRATION
Članica nosilka/UL Member:	UL FU

Študijski programi in stopnja (ni študijev)	Študijska smer	Letnik	Semestri	Izbirnost
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Univerzitetna koda predmeta/University course code: 0576571

Koda učne enote na članici/UL Member course code: 2004

Predavanja /Lectures	Seminar /Seminar	Vaje /Tutorials	Klinične vaje /Clinical tutorials	Druge oblike študija /Other forms of study	Samostojno delo /Individual student work	ECTS
28	14			118	80	8

Nosilec predmeta/Lecturer: Dimitar Hristovski, Tina Jukić

Vrsta predmeta/Course type: OBVEZNI/CORE

Jeziki/Languages: Predavanja/Lectures: Angleščina, Slovenščina
Vaje/Tutorial:

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:

Ni pogojev.

Prerequisites:

No prerequisites.

Vsebina:

1. Definicije in zgodovinski kontekst uvajanja IT v javni upravi, e-uprava
2. Fazni modeli uvajanja in razvoja e-uprave in nacionalne strategije e-uprave
3. Učinki IT in vrednotenje e-uprave
4. Mednarodni okviri za vrednotenje e-uprave
5. Digitalni razkorak
6. Upravljalški pristop k vpeljavi IT v javni upravi
7. Portali »vse na enem mestu«
8. Interoperabilnostni okviri e-uprave
9. Participativni pristop k vpeljavi IT v javni upravi
10. E-participacija in e-vodenje
11. Odprta uprava in odprti podatki
12. Izbrani trendi digitalne preobrazbe javne uprave

Content (Syllabus outline):

1. Definitions, historical context of introducing IT in public administration, e-government
2. E-government stage models and national strategies
3. Effects of IT and evaluating e-government
4. International frameworks for evaluating e-government
5. Digital divide
6. Managerial approach to introducing IT in public administration
7. One-stop-shop portals
8. E-government interoperability frameworks
9. Participative approach to introducing IT in public administration
10. E-participation and e-governance
11. Open government and open data
12. Selected trends in the digital transformation of public administration

Temeljna literatura in viri/Readings:

1. Veit, D., Huntgeburth, J. (2014) *Foundations of Digital Government: Leading and Managing in the Digital Era*. Springer, Berlin. *Izbrana poglavja*, cca. 200 str.
2. Lee, J. (2010) 10 year retrospect on stage models of e-government: a qualitative meta-synthesis. *Government Information Quarterly* 27: 220-230.
3. Rabaiah, A., Vandijck, E. (2009) A strategic framework of e-government: generic and best practice. *Electronic Journal of e-Government* 7(3): 241-258.
4. Heeks, R. (2006) Understanding and Measuring eGovernment: International Benchmarking Studies. *UNDESA workshop, E-Participation and E-Government: Understanding the Present and Creating the Future*. Budimpešta, Madžarska. *Izbrani deli*, cca. 30 str.
5. Tinholt, D. in ost. (2014) Delivering the European Advantage? How European governments can and should benefit from innovative public services. Poročilo Evropske Unije. DOI: 10.2759/4919. *Izbrana poglavja*, cca. 80 str.
6. Mugellini, E., Pettenati, M.C., Khaled, O.A., Pirri, F. (2005) eGovernment Service Marketplace: Architecture and Implementation. *E-Government: Towards Electronic Democracy*, Springer: 193-204.

Cilji in kompetence:

Cilji – študent zna:

- izbrati in uporabljati metodologije za vrednotenje e-uprave
- identificirati in uporabiti ustrezne pristope k strateškemu načrtovanju in uvajanju e-uprave (e-storitev), e-participacije in odprte uprave (odprtih podatkov)
- identificirati dimenzije digitalne ločnice in zasnovati ukrepe za njeno zmanjšanje
- v skupini pripraviti, predstaviti in pisno utemeljiti analizo izbranega aktualnega trenda digitalne preobrazbe javne uprave

Kompetence

- zmožnost primerjalne analize in kritičnega vrednotenja stanja e-uprave na izbranem (geografskem ali organizacijskem) področju v Sloveniji in tujini
- zmožnost prepoznavanja priložnosti za uvedbo in uporabo storitev e-uprave in odprtih podatkov ter sodelovanja pri razvoju ustreznih ukrepov in rešitev
- zmožnost sodelovanja strateškega načrtovanja razvoja e-uprave, e-participacije in odprte uprave

Objectives and competences:

Goals – student:

- selects and applies methodologies for the evaluation of e-government
- identifies and applies appropriate approaches to strategic planning and implementation of e-government services (e-services), e-participation and open government (open data)
- identifies the dimensions of the digital divide and designs measures for its reduction
- prepares, presents, and produces a written justification of a group analysis on a selected current trend in the digital transformation of public administration

Competencies

- the ability of a comparative analysis and critical assessment of the state of e-government in the chosen (geographical or organizational) field in Slovenia and abroad
- the ability to identify opportunities for the introduction and use of e-government services and open data, together with the ability of participation in the development of appropriate measures and solutions
- the ability to participate in strategic planning of e-government development, e-participation and open government

Predvideni študijski rezultati:

Študent

- pozna, razume in lahko uporablja različne pristope in fazne modele za uvajanje e-uprave, e-participacije in odprte uprave
- pozna, razume in lahko tvori ustrezno strukturo in vsebino strateških dokumentov s področja e-uprave
- pozna, razume in lahko uporablja metodologije za vrednotenje e-uprave

Intended learning outcomes:

Student:

- knows, understands and can use a variety of approaches and models for the deployment of e-government, e-participation and open government
- knows, understands and is able to form a proper structure and content of the strategic documents in the field of e-government
- knows, understands and is able to apply the methodologies for e-government evaluation

• zna analizirati in načrtovati ukrepe za odpravljanje digitalne ločnice in uvajanje interoperabilnosti med informacijskimi sistemi v upravi • zna analizirati načrte informacijskih rešitev za uvajanje in izkoriščanje e-storitev ter odprtih podatkov v upravi	• is able to analyze and plan actions to eliminate the digital divide and deployment of interoperability between information systems in administration • is able to analyze plans of IT solutions for the deployment and use of e-services and open data in public administration
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Metode poučevanja in učenja:	Learning and teaching methods:
1. priprava na predavanja 2. predavanje 3. priprave na seminar 4. seminar: skupinska priprava in predstavitev tematskega poročila 5. konzultacije	1. preparations for lectures 2. lecture 3. preparations for seminars 4. seminar: group preparation and presentation of a thematic report 5. study consultation

Načini ocenjevanja:	Delež/Weight	Assessment:
1. pisni in/ali ustni izpit	70,00 %	1. written (and/or oral) exam
2. sprotne naloge in aktivno sodelovanje na predavanjih in seminarjih	30,00 %	2. Assignments and active participation in lectures and seminars

Ocenjevalna lestvica:	Grading system:
5 - 10, pri čemer velja, da je pozitivna ocena od 6 - 10	5 - 10, a student passes the exam if he is graded from 6 to 10

Reference nosilca/Lecturer's references:

1. ZHANG, Rui, HRISTOVSKI, Dimitar, SCHÜTTE, Dalton, KASTRIN, Andrej, FISZMAN, Marcelo, KILICOGLU, Halil. Drug repurposing for COVID-19 via knowledge graph completion. <i>Journal of biomedical informatics</i>, ISSN 1532-0480. 2021, vol. 115, str. 1-15, ilustr. doi: 10.1016/j.jbi.2021.103696. 2. KASTRIN, Andrej, HRISTOVSKI, Dimitar. Scientometric analysis and knowledge mapping of literature-based discovery (1986-2020). <i>Scientometrics</i>, ISSN 0138-9130, 2021, vol. 126, str. 1415-1451. doi: 10.1007/s11192-020-03811-z. 3. KASTRIN, Andrej, HRISTOVSKI, Dimitar. Disentangling the evolution of MEDLINE bibliographic database : a complex network perspective. <i>Journal of biomedical informatics</i>, ISSN 1532-0464. 2019, vol. 89, str. 101-113, ilustr. doi: 10.1016/j.jbi.2018.11.014. 4. HRISTOVSKI, Dimitar, KASTRIN, Andrej, DINEVSKI, Dejan, BURGUN, Anita, ŽIBERNA, Lovro, RINDFLESCHE, Thomas C. Using literature-based discovery to explain adverse drug effects. <i>Journal of medical systems</i>, ISSN 1573-689X, Aug. 2016, vol. 40, iss. 8, 1-5 str. doi: 10.1007/s10916-016-0544-z. 5. KASTRIN, Andrej, RINDFLESCHE, Thomas C., HRISTOVSKI, Dimitar. Link prediction on a network of co-occurring MeSH terms : towards literature-based discovery. <i>Methods of information in medicine</i>, ISSN 0026-1270, AUG. 2016, vol. 55, iss. 4, str. 340-346, doi: 10.3414/ME15-01-0108. 6. HRISTOVSKI, Dimitar, DINEVSKI, Dejan, KASTRIN, Andrej, RINDFLESCHE, Thomas C. Biomedical question answering using semantic relations. <i>BMC bioinformatics</i>, ISSN 1471-2105, 2015, vol. 16, no. 6, 14 str., doi: 10.1186/s12859-014-0365-3. 7. JUKIĆ, Tina, VRBEK, Sanja. A decision support model for assessing co-creation : the Bee Path Project. <i>Urban planning</i>. 2025, vol. 10, [article no.] 9519, str. 1-30, ilustr. ISSN 2183-7635. https://www.cogitatiopress.com/urbanplanning/article/view/9519, DOI: doi.org/10.17645/up.9519. 8. VRBEK, Sanja, JUKIĆ, Tina. Co-creation service readiness model : a decision support for the selection of public services suitable for improvement through co-creation. <i>Transforming government</i>. 2024, vol. 18, iss. 1, str. 13-32, ilustr. ISSN 1750-6166. https://www.emerald.com/insight/content/doi/10.1108/TG-03-2023-0031/full/html, Repozitorij Univerze v Ljubljani – RUI, DOI: 10.1108/TG-03-2023-0031. 9. JUKIĆ, Tina, PLUCHINOTTA, Irene, HRŽICA, Rok, VRBEK, Sanja. Organizational maturity for co-creation: Towards a multi-attribute decision support model for public organizations. <i>Government information quarterly : an international journal of policies, resources, services, and practices</i>. Jan. 2022, vol. 39, iss. 1, str. 1-20, ilustr. ISSN 0740-624X. https://www.sciencedirect.com/science/article/pii/S0740624X21000599, Repozitorij Univerze v Ljubljani – RUI, DOI: 10.1016/j.giq.2021.101623.
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10. DEČMAN, Mitja, JUKIČ, Tina. Izbrani vidiki digitalne preobrazbe javne uprave. V: STARE, Janez (ur.), PEČARIČ, Mirko (ur.). *Znanost o javni upravi*. 1. natis. Ljubljana: Fakulteta za upravo, 2021. Str. 501-532. Zbirka znanstvenih monografij Upravna misel. ISBN 978-961-262-124-7.