

METODE IN TEHNIKE ZA PODPORO ODLOČANJA V UPRAVI

UČNI NAČRT PREDMETA/COURSE SYLLABUS

Predmet:	METODE IN TEHNIKE ZA PODPORO ODLOČANJA V UPRAVI
Course title:	METHODS AND TECHNIQUES FOR DECISION SUPPORT IN ADMINISTRATION
Članica nosilka/UL Member:	UL FU

Študijski programi in stopnja	Študijska smer	Letnik	Semestri	Izbirnost
Upravna informatika, prva stopnja, univerzitetni	Ni členitve (študijski program)	2. letnik	1. semester	obvezni

Univerzitetna koda predmeta/University course code:	0045542
Koda učne enote na članici/UL Member course code:	0866

Predavanja /Lectures	Seminar /Seminar	Vaje /Tutorials	Klinične vaje /Clinical tutorials	Druge oblike študija /Other forms of study	Samostojno delo /Individual student work	ECTS
45	0	30	0	0	105	6

Nosilec predmeta/Lecturer:	izr. prof. dr. Dalibor Stanimirović
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Vrsta predmeta/Course type:	obvezni/core
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Jeziki/Languages:	Predavanja/Lectures:	Slovenščina
	Vaje/Tutorial:	Slovenščina

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:	Prerequisites:
Ni pogojev.	No prerequisites.

Vsebina:	Content (Syllabus outline):
1. Uvod v teorijo odločanja 2. Komponente in procesi odločanja 3. Strukturiranje ciljev in odločitev 4. Enostavne metode in tehnike za podporo odločanja 5. Odločitveni modeli in vrednotenje alternativ 6. Obravnava negotovosti in tveganja pri odločanju 7. Večkriterijsko oziroma večciljno odločanje 8. Kakovost odločanja, pristranskosti in napake pri odločanju 9. Skupinsko odločanje 10. Sistemi za podporo odločanju 11. Primeri uporabe sistemov za odločanje v upravi 12. Praktična uporaba odločitvenih sistemov	1. Introduction to decision theory 2. Components and processes of decision-making 3. Structuring objectives and decisions 4. Basic methods and techniques for decision support 5. Decision models and evaluation of alternatives 6. Dealing with uncertainty and risk in decision-making 7. Multi-criteria and multi-objective decision-making 8. Decision quality, cognitive biases, and decision-making errors 9. Group decision-making 10. Decision support systems 11. Applications of decision support systems in public administration

Temeljna literatura in viri/Readings:

1. Bohanec, M. (2012). Odločanje in modeli. DMFA založništvo, Ljubljana. Izbrana poglavja (1–18).
2. Bonczek, R. H., Holsapple, C. W., & Whinston, A. B. (2014). Foundations of decision support systems. Academic Press.
3. Levy, K., Chasalow, K. E., & Riley, S. (2021). Algorithms and decision-making in the public sector. *Annual Review of Law and Social Science*, 17(1), 309-334.
4. Roehl, U. B. (2022). Understanding automated decision-making in the public sector: a classification of automated, administrative decision-making. In *Service Automation in the Public Sector: Concepts, Empirical Examples and Challenges* (pp. 35-63). Cham: Springer International Publishing.
5. Sahoo, S. K., & Goswami, S. S. (2023). A comprehensive review of multiple criteria decision-making (MCDM) methods: advancements, applications, and future directions. *Decision Making Advances*, 1(1), 25-48.
6. Alhosan, S., & Alsalloum, O. (2025). Enhancing Public Sector Decision-Making through Artificial Intelligence Models: A Comparative Study. *Journal of Health Informatics in Developing Countries*, 19(02).

Cilji in kompetence:

Cilji – študent:

- razume in uporablja temeljne teoretične koncepte, pojme, metode in tehnike na področju podpore odločanja
- kritično opazuje in analizira enostavne in zahtevne odločitvene procese v upravi
- načrtuje, simulira in analizira zahtevne odločitvene modele za konkretne probleme odločanja v upravni praksi

Kompetence:

- sposobnost načrtovanja, razvoja in uporabe zapletenih večparameterskih modelov za podporo odločanju z obravnavo negotovosti in tveganja
- sposobnost identificiranja, formuliranja in reševanja podločitvenih problemov v praksi.

Objectives and competences:

Objectives – student:

- understands and able to use fundamental theoretical concepts, terms, methods and techniques for decision support
- critically observes and analyzes simple and complex decision processes in administration
- designs, simulates and analyzes complex decision models for specific problems of decision making in the administration

Competences:

- ability to design, implement and deploy complex multi-criteria decision models addressing uncertainty and risk
- ability to identify, formulate and solve decision problems in practice.

Predvideni študijski rezultati:

- Poznavanje in razumevanje temeljnih pojmov s področja teorije in podpore odločanja
- Poznavanja in razumevanje procesov analize in reševanja odločitvenih problemov
- Poznavanje praktičnih aspektov razvoja in uporabe odločitvenih sistemov in modelov

Intended learning outcomes:

- Knowledge and understanding of the fundamental concepts in the areas of decision theory and decision support
- Knowledge and understanding of the processes of analysis and solving decision problems
- Practical skills of design and deployment of decision systems and models

Metode poučevanja in učenja:

1. Predavanja
2. Vaje v računalniški učilnici
3. Domače in/ali seminarske naloge
4. E-učenje z namenom omogočiti študentom sprotno (samo)preverjanje znanja

Learning and teaching methods:

1. Lectures
2. Exams in a computer lab
3. Homework and/or seminar paper
4. E-learning that allows students to continuously self-evaluate their knowledge

Načini ocenjevanja:**Delež/Weight****Assessment:**

1.	Pisni ali ustni izpit	60,00 %	1.	Written or oral exam
2.	Domače in/ali seminarske naloge	40,00 %	2.	Homework and/or seminar paper

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. STANIMIROVIĆ, Dalibor, TEPEJ JOČIĆ, Lucija, STANIMIROVIĆ, Tatjana. Why do personal and demographic data matter in healthcare digitalization initiatives?. Edelweiss applied science and technology. 2026, vol. 10, no. 1, str. 859-880, tabele. ISSN 2576-8484. <https://learning-gate.com/index.php/2576-8484/article/view/11767>, <https://d.cobiss.net/repository/si/files/265159939/170786/Why-do-personal.pdf>, DOI: 10.55214/2576-8484.v10i11767. [COBISS.SI-ID 265159939]
2. STANIMIROVIĆ, Dalibor, STANIMIROVIĆ, Tatjana. Beyond the speculation: mapping the real impacts of digitalization on the Slovenian healthcare business model. Central European public administration review. Nov. 2025, vol. 23, no. 2, str. 301-326, ilustr. ISSN 2591-2240. <https://journals.uni-lj.si/CEPAR/article/view/23879/19735>, DOI: 10.17573/cepar.2025.11. [COBISS.SI-ID 258038275]
3. BRUTHANS, Jan, DUFTSCHMID, Georg, STANIMIROVIĆ, Dalibor, et al. Comparison of electronic prescription systems in the European Union: benchmarking development, use, and future trends. IEEE journal of biomedical and health informatics. [Print ed.]. May 2025, vol. 29, no. 5, str. 3712-3722, ilustr. ISSN 2168-2194. <https://ieeexplore.ieee.org/document/10891153>, DOI: 10.1109/JBHI.2025.3531317. [COBISS.SI-ID 235343619]
4. STANIMIROVIĆ, Dalibor. Failures and fallacies of eHealth initiatives: are we finally able to overcome the underlying theoretical and practical orthodoxies?. Digital health. 15 May 2024, vol. 10, 7 str. ISSN 2055-2076. <https://journals.sagepub.com/doi/10.1177/20552076241254019>, DOI: 10.1177/20552076241254019. [COBISS.SI-ID 195990275]
5. STANIMIROVIĆ, D., & MATETIĆ, V. Can the COVID-19 pandemic boost the global adoption and usage of eHealth solutions?. Journal of global health. 2020, vol. 10, no. 2, str. 1- ISSN 2047-2986. http://www.jogh.org/documents/issue202002/jogh-10-0203101_AU.pdf, DOI: 10.7189/jogh.10.0203101. [COBISS.SI-ID 37822211]
6. STANIMIROVIĆ, D., & PRIBAKOVIĆ BRINOVEC, R. Management of health care workforce: conceptualizing a structural model of human resource planning in health care in Slovenia. Management. 2023, vol. 27, št. 2, str. 29-42, ilustr. ISSN 1846-3363. <https://hrcak.srce.hr/clanak/437108>. [COBISS.SI-ID 154128131]