

# SISTEMI ZA PODPORO ODLOČANJU V UPRAVI

## UČNI NAČRT PREDMETA/COURSE SYLLABUS

<b>Predmet:</b>	SISTEMI ZA PODPORO ODLOČANJU V UPRAVI
<b>Course title:</b>	DECISION SUPPORT SYSTEMS IN ADMINISTRATION
<b>Članica nosilka/UL</b>	UL FU
<b>Member:</b>	

<b>Študijski programi in stopnja</b> (ni študijev)	<b>Študijska smer</b>	<b>Letnik</b>	<b>Semestri</b>	<b>Izbirnost</b>
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<b>Univerzitetna koda predmeta/University course code:</b>	0061370
<b>Koda učne enote na članici/UL Member course code:</b>	2031

<b>Predavanja</b> /Lectures	<b>Seminar</b> /Seminar	<b>Vaje</b> /Tutorials	<b>Klinične vaje</b> /Clinical tutorials	<b>Druge oblike</b> študija /Other forms of study	<b>Samostojno</b> delo /Individual student work	<b>ECTS</b>
24	10			56	90	6

<b>Nosilec predmeta/Lecturer:</b>	Dalibor Stanimirović
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<b>Vrsta predmeta/Course type:</b>	IZBIRNI/ELECTIVE
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<b>Jeziki/Languages:</b>	Predavanja/Lectures:	Angleščina, Slovenščina
	Vaje/Tutorial:	

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

<b>Vsebina:</b>	<b>Content (Syllabus outline):</b>
<ol style="list-style-type: none"><li>Uvod: odločitvena teorija, odločanje in proces odločanja</li><li>Podpora odločanja</li><li>Odločitveni modeli</li><li>Metode in tehnike modeliranja; poudarek na večparameterskih modelih</li><li>Programska oprema za modeliranje in podporo odločanja</li><li>Primeri odločitvenih modelov in njihove uporabe v upravi</li></ol>	<ol style="list-style-type: none"><li>Introduction: decision theory, decision making and decision making process</li><li>Decision support</li><li>Decision models</li><li>Modeling methods and techniques with focus on multi-attribute decision models</li><li>Software for building decision models and decision support</li><li>Examples of decision support models and their practical use</li></ol>

### Temeljna literatura in viri/Readings:

- Clemen, RT and Reilly, T (2014) *Making Hard Decisions: An Introduction to Decision Analysis*. Third Edition. Duxbury, USA: South-Western Cengage Learning.
- French, S. (1988) *Decision Theory: An Introduction to the Mathematics of Rationality*. London, UK: Ellis Horwood.
- Turban, E, Sharda, R, Delen, D (2011) *Decision Support and Business Intelligence*. US, Boston: Pearson.

<b>Cilji in kompetence:</b>	<b>Objectives and competences:</b>
<p>Cilji – študent zna:</p> <ul style="list-style-type: none"> <li>• analizirati procese odločanja v upravi in odkrivati njihove specifične značilnosti</li> <li>• uporabiti metode, tehnike in sisteme za podporo zahtevnih odločitvenih procesov in gradnjo ustreznih modelov</li> <li>• oceniti, preveriti, ovrednotiti in primerjati uporabnost in ustreznost metod, tehnik in sistemov za podporo odločanju v upravi</li> <li>• analizirati in primerjati rezultate uporabe odločitvenih modelov v podanem upravnem kontekstu</li> </ul> <p>Kompetence:</p> <ul style="list-style-type: none"> <li>• zmožnost identificiranja priložnosti za uporabo teorije odločanja in podpore odločanju na področju uprave</li> <li>• zmožnost analize realnih odločitvenih problemov v upravi in razvoja ustreznih odločitvenih modelov</li> <li>• zmožnost uporabe odločitvenih modelov za sprejemanje in analizo odločitev ter analizo različnih scenarijev</li> </ul>	<p>Objectives – student knows how to:</p> <ul style="list-style-type: none"> <li>• analyze decisions processes in public administration and discover their specific properties</li> <li>• use methods, techniques and systems for support of complex decision processes and building decision models</li> <li>• estimate, check, evaluate and compare the utility and suitability of methods, techniques and systems for decision support in public administration</li> <li>• analyze and compare the results of using decision models in a given/specific public administration context</li> </ul> <p>Competences:</p> <ul style="list-style-type: none"> <li>• the ability to identify opportunities for using decision theory and decision support in the public administration domain</li> <li>• the ability to analyze real-world decision problems in public administration and design of the appropriate decision models</li> <li>• the ability to use decision models for making and analysis of decisions as well as analysis of different scenarios</li> </ul>

<b>Predvideni študijski rezultati:</b>	<b>Intended learning outcomes:</b>
<p>Študent:</p> <ul style="list-style-type: none"> <li>• pozna, razume in lahko uporablja metode za analizo odločitvenih problemov in procesov v upravi</li> <li>• pozna, razume in lahko uporablja ustrezne metod in tehnik za gradnjo večparameterskih odločitvenih modelov</li> <li>• pozna in lahko uporablja programsko opremo za formalizacijo in uporabo odločitvenih modelov</li> <li>• pozna, razume in lahko uporablja analize kaj-če, analize občutljivosti in selektivne razlage za analizo odločitev dobljenih z odločitvenim modelom</li> </ul>	<p>Student:</p> <ul style="list-style-type: none"> <li>• knows, understands and is able to use methods for analysis of decision problems and processes in public administration</li> <li>• knows, understands and is able to use appropriate methods and techniques for building multi-criteria decision models</li> <li>• knows and is able to use software for formalization and use of decision models</li> <li>• knows, understands and is able to use what-if analysis, sensitivity analysis and option evaluation for analysis of decisions obtained with a decision model</li> </ul>

<b>Metode poučevanja in učenja:</b>	<b>Learning and teaching methods:</b>
<ol style="list-style-type: none"> <li>1. priprava na predavanja</li> <li>2. predavanje</li> <li>3. priprava na seminar</li> <li>4. seminar</li> <li>5. konzultacije</li> <li>6. seminarska naloga</li> </ol>	<ol style="list-style-type: none"> <li>1. preparations for lectures</li> <li>2. lecture</li> <li>3. preparations for seminars</li> <li>4. seminars</li> <li>5. study consultation</li> <li>6. seminar paper</li> </ol>

<b>Načini ocenjevanja:</b>	<b>Delež/Weight</b>	<b>Assessment:</b>
1. Seminarska naloga	70,00 %	1. Seminar work and presentation
2. Pisni in/ali ustni izpit	30,00 %	2. Written and/or Oral exam

**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, D., & Vintar, M. A critical insight into the evaluation of e-government policies: reflections on the concept of public interest. *International journal on advances in life sciences*. 2013, vol 5, no. 1/2, str. 52-65. ISSN 1942-2660. [http://www.iariajournals.org/life\\_sciences/lifsci\\_v5\\_n12\\_2013\\_paged.pdf](http://www.iariajournals.org/life_sciences/lifsci_v5_n12_2013_paged.pdf). [COBISS.SI-ID 4151982]
2. Stanimirović, D., Murko, E., Battelino, T., Grošelj, U., & Žerjav-Tanšek, M. Towards a comprehensive strategy for the management of rare diseases in Slovenia: outlining an IT-enabled ecosystemic approach. *International journal of environmental research and public health*. [Online ed.]. 2021, vol. 18, iss. 23, str. 1-17. ISSN 1660-4601. <https://www.mdpi.com/1660-4601/18/23/12395>, Repozitorij Univerze v Ljubljani – RUL, DOI: 10.3390/ijerph182312395. [COBISS.SI-ID 86668291]
3. Stanimirović, D., & Tepej Jočić, L. The Slovenian Patient Summary: one digital record, multitude of applications. *Studies in health technology and informatics*. 2023, vol. 305, str. 295-298, ilustr. ISSN 1879-8365. <https://ebooks.iospress.nl/volume/healthcare-transformation-with-informatics-and-artificial-intelligence>, DOI: 10.3233/SHTI230487. [COBISS.SI-ID 157580803]
4. 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]
5. Stanimirović, D., Development of the digital mortality surveillance system: the Slovenian contribution to the global monitoring of mortality causes and patterns. *Journal of global health*. 2024, vol. 14, [article no.] 03005, str. 1-7, ilustr. ISSN 2047-2986. <https://jogh.org/2024/jogh-14-03005>, DOI: 10.7189/jogh.14.03005. [COBISS.SI-ID 192194563]