

	UČNI NAČRT PREDMETA/COURSE SYLLABUS
Predmet	Obvladovanje informatike
Course title	IT Governance and Management

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Upravljanje poslovnih in informacijskih sistemov / 2. stopnja	Upravljanje in razvoj informacijskih sistemov	2. letnik	3.
Business and Information Systems Management / 2 nd Cycle	Management and Development of Information Systems	2 nd year	3 rd

Vrsta predmeta/Course type

obvezni/obligatory

Univerzitetna koda predmeta/University course code

2_URIS_2_UN2

Predavanja	Seminar	Sem. vaje	Lab. vaje	Teren.	Samost.	ECTS
Lectures	Seminar	Tutorial	Laboratory work	vaje	delo	
				Field work	Individ. work	
20			10		120	7

Nosilec predmeta/Lecturer:

doc. dr. Alenka Rožanec
Učni načrt pripravil izr. prof. dr. Marjan Krisper

Jeziki/ Predavanja/Lectures:
Languages:

slovenski/Slovenian

Vaje/Tutorial:

slovenski/Slovenian

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

Prerequisites:

<ul style="list-style-type: none"> Vpis v drugi letnik študijskega programa. Študent mora pred izpitom pripraviti in predstaviti ter zagovarjati projektno/raziskovalno nalogo. 	<ul style="list-style-type: none"> The prerequisite for inclusion is enrolment in the second year of study. Student has to prepare, present and defend a project/research paper before the exam.
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Vsebina:

Content (Syllabus outline):

<ul style="list-style-type: none"> <i>Obvladovanje informatike v poslovnih sistemih – uvod.</i> <i>Poslovno-informacijska arhitektura (PIA):</i> Deležniki in njihovi interesi pri prenovi PS. Obstoječi pristopi in vloga strateškega planiranja informatike. Vloga PIA pri razvoju poslovnih in informacijskih sistemov poslovnih informacijskih sistemov. 	<ul style="list-style-type: none"> <i>IT governance in business systems - Introduction.</i> <i>Enterprise architecture (EA):</i> Stakeholders and their interests in business systems' renovation. The existing approaches, the role of strategic IS/IT planning. The role of EA in the development of business and information systems.
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<p>Opredelitev in definicije PIA (metamodel PIA, poslovna, aplikativna in tehnološka plast). Proces razvoja PIA. Organiziranost za vzpostavitev in vzdrževanje PIA. Ogradja, metodologije in orodja za PIA (Zachman, Archimate, TOGAF...</p> <ul style="list-style-type: none"> • <i>Upravljanje informatike:</i> Organiziranost informatike. Procesi informatike. Podpora storitvam. Zagotavljanje storitev. Upravljanje storitev. Upravljanje varnosti. Obvladovanje infrastrukture. Upravljanje z aplikacijami. Obvladovanje tveganj. Upravljanje sprememb. ITIL. COBIT. Standardi informatike. 	<p>Identification and definition of EA (EA metamodel, business, applicative and technology layer). The process of EA development. Organizing the architecture function for development and maintenance of EA. EA frameworks, methodologies and tools (Zachman, Archimate, TOGAF ...).</p> <ul style="list-style-type: none"> • <i>IT Governance and Management:</i> IT organization. IT processes. Service support. Service delivery. Service Management. Security management. Infrastructure management. Applications management. Risk Management. Change management. ITIL. COBIT. IT standards.
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Temeljna literatura in viri/Readings:

Temeljna literatura/Basic literature

- Lankhorst, M. et al. (2017). *Enterprise Architecture at Work: Modelling, Communication and Analysis*. Springer, Dordrecht.
- Haes, S. et al. (2020). *Enterprise Governance of Information Technology: achieving alignment and value in digital organizations*, Cham: Springer Nature.

Priporočljiva literatura/Recommended literature

- Krisper, M. in Rožanec, A. (2005). *Obvladovanje informatike v poslovnih sistemih: pomen strategije in arhitektur*. Uporabna informatika, letn. 13, št. 4, str. 185-198.
- M. Op't Land et al.: *Enterprise Architecture*, Springer, 2009.
- Bavec, C., Kovačič, A., Krisper, M., Rajkovič, V. in Vintar, M. (2018). *Slovenija na poti digitalne preobrazbe*. 1. izd. Ljubljana: Fakulteta za računalništvo in informatiko, 223 str., ilustr. ISBN 978-961-7059-00-7. [COBISS.SI-ID 296930560]
- <https://www.isaca.org/resources/cobit>
- <https://www.ibm.com/topics/it-infrastructure-library>
- <https://www.opengroup.org/togaf>
- <https://pubs.opengroup.org/architecture/archimate3-doc/>

Cilji in kompetence:

Učna enota prispeva predvsem k razvoju naslednjih splošnih in specifičnih kompetenc:

- celostno obvladovanje informatike v poslovnih sistemih v skladu s poslovno strategijo;
- vzpostavitev in vzdrževanje poslovno-informacijske arhitekture;
- strateško planiranje, razvoj in zagotavljanje storitev informatike,

Objectives and competences:

The learning unit mainly contributes to the development of the following general and specific competences:

- comprehensive IT governance in enterprises consistent with a business strategy;
- development and maintenance of enterprise architecture;
- strategic information systems planning, development and delivering of IT

upravljanje procesov informatike, vodenje informatike, obvladovanje tveganj.	services, governance of IT processes, IT management, risk management.
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Predvideni študijski rezultati:	Intended learning outcomes:
Študent/študentka: <ul style="list-style-type: none"> • pozna in razume pristope, metode, vzpostavitev poslovno-informacijske arhitekture ter instrumentov in mehanizmov upravljanja in organiziranja informatike, • zna uporabiti znanje PIA in metode upravljanja informatike za njeno celovito obvladovanje pri delu informatikov in vodenju, • razume skladnosti med teorijo upravljanja informatike in praktičnim ravnanjem na podlagi konkretnih primerov uporabe v poslovnih sistemih ter najboljših praks, • uporablja prenosljive spretnosti - metode systemskega pristopa, upravljanja, vodenja, razumevanja poslovanja in vloge IT v praksi. 	Students: <ul style="list-style-type: none"> • know and understand approaches and methods for development of EA, instruments and mechanisms for managing IT and organizing IT function, • use EA knowledge and methods of IT management for the overall IT governance at the work of IT professionals, • reflectio - understanding the consistency between theory of IT management and practical dealing on the basis of concrete examples of use in business systems and best practices. • use transferable skills – methods of systems approach, IT management, leadership, understanding of business and the role of IT in practice.

Metode poučevanja in učenja:	Learning and teaching methods:
<ul style="list-style-type: none"> • <i>predavanja</i> z aktivno udeležbo študentov (razlaga, diskusija, vprašanja, primeri, reševanje problemov), • <i>laboratorijske vaje</i>: refleksija izkušenj, praktično reševanje več tipičnih problemov na računalniku, predstavitev in zagovor programskih rešitev, diskusija, sporočanje povratne informacije. 	<ul style="list-style-type: none"> • <i>lectures</i> with active student participation (explanation, discussion, questions, examples, problem solving), • <i>laboratory work</i>: reflection on experience, practical solving of several typical problems on a computer, presentation and defence of programming solutions, discussion, feedback.

Načini ocenjevanja:	Delež (v %) Weight (in %)	Assessment:
Načini: <ul style="list-style-type: none"> • izpit • izdelava, predstavitev in zagovor projektne/raziskovalne naloge 	60 % 40 %	Types: <ul style="list-style-type: none"> • exam • preparation, presentation and defence of the project/research paper
Ocenjevalna lestvica: ECTS.		Grading scheme: ECTS.

