

PLANIRANJE IN UPRAVLJANJE INFORMATIKE

UČNI NAČRT PREDMETA/COURSE SYLLABUS

Predmet: Course title: Članica nosilka/UL Member:	PLANIRANJE IN UPRAVLJANJE INFORMATIKE Informatics Planning and Management
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Študijski programi in stopnja	Študijska smer	Letnik	Semestri	Izbirnost
Upravna informatika, prva stopnja, univerzitetni	Upravna informatika (študijski program)	3. letnik	2. semester	obvezen

Univerzitetna koda predmeta/University course code:	0045580
Koda učne enote na članici/UL Member course code:	0684

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:	Rok Rupnik
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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:

Vsebina: Temeljna vsebinska področja predmeta zajemajo naslednje: <ul style="list-style-type: none">• opredelitev in pregled obvladovanja informatike skozi čas:<ul style="list-style-type: none">• opredelitev in časovni pregled strateškega planiranja, poslovno-informacijskih arhitektur, standardov, metodologij in ogrođij;• strateško planiranje informatike:<ul style="list-style-type: none">• poslovna strategija, strateški elementi, analiza stanja, tehnološka vizija, načrt informacijske tehnologije, prioritete projektov, operativni plan;• metodologije strateškega planiranja informatike:<ul style="list-style-type: none">• pregled metodologij strateškega planiranja, EMRIS (Enotna metodologija razvoja informacijskih sistemov);• poslovno-informacijske arhitekture:	Content (Syllabus outline): Basic course content areas include the following: <ul style="list-style-type: none">• definition and review of IT governance through time:<ul style="list-style-type: none">• definition and time review of strategic IS/IT planning, enterprise architecture, standards, methodologies and frameworks;• strategic IS/IT planning:<ul style="list-style-type: none">• business strategy, strategic elements, analysis of the existing situation, technological vision, information technology plan, projects priorities, operation plan;• strategic IS/IT planning methodologies:<ul style="list-style-type: none">• review of strategic IS/IT planning methodologies, EMRIS (Unified information systems development methodology);• enterprise architectures:<ul style="list-style-type: none">• architecture layers - business, application and technology, business –IT alignment, service-
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<ul style="list-style-type: none"> • arhitektурне ravni – poslovna, aplikativna, tehnološka, usklajenost poslovne in informacijske domene, storitveno usmerjena arhitektura (SOA), konceptualni model arhitekture (ISO 1471); • arhitektурне metode in ogrodja: <ul style="list-style-type: none"> • Zachman, Togaf, Archimate; • instrumenti upravljanja poslovnih sistemov in instrumenti upravljanja informatike: <ul style="list-style-type: none"> • EFQM, BSC, standardi ISO (9000, 17799, 27000); • organizacija informatike: <ul style="list-style-type: none"> • organizacija informatike v poslovнем sistemu, vrste organizacijskih shem organizacijske enote za informatiko. • procesi informatike: <ul style="list-style-type: none"> • plansko organizacijski, izvedbeni, podporni in nadzorni. • vrednotenje uspešnosti informatike in ravni zrelosti (CMMI), • ogrodja in najboljše prakse upravljanja informatike: • COBIT, ITIL, upravljanje varnosti, zagotavljanje nepreklenjenosti poslovanja. 	<ul style="list-style-type: none"> oriented architecture (SOA), conceptual architecture model (ISO 1471); • architecture methods and frameworks: <ul style="list-style-type: none"> • Zachman, Togaf, Archimate; • business and IT management instruments: <ul style="list-style-type: none"> • EFQM, BSC, ISO standards (9000, 17799, 27000); • organizing the IT function: <ul style="list-style-type: none"> • organizing the IT function in an enterprise, different organizational charts for IT function. • IT processes: <ul style="list-style-type: none"> • plan and organize, implementation, support and control. • Evaluation of IT success and levels of maturity (CMMI) • Frameworks and best practices for IT governance: • COBIT, ITIL, security management, business continuity
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Temeljna literatura in viri/Readings:

- Strategic Planning, George A. Steiner, Free Press, 2008
- Executive's Guide to IT Governance: Improving Systems Processes with Service Management, COBIT, and ITIL, Wiley, 2013
- IT Governance: Policies & Procedures, Michael Wallace, Larry Webber, Wolters Kluwer Law & Business, 2013
- COBIT 4.1
- COBIT 5

Cilji in kompetence:

Cilj predmeta je študentom predstaviti osnovne pojme, pristope, metode in instrumente upravljanja informatike v poslovnih sistemih. Gre za področje strateškega planiranja, poslovno-informacijskih arhitektur ter drugih mehanizmov celostnega obvladovanja informatike.

Objectives and competences:

The aim of the course is to present students key concepts, methods and instruments for IT governance in enterprises. Content areas include strategic IS/IT planning, enterprise architectures and other mechanisms for holistic IT governance.

Predvideni študijski rezultati:

Po uspešnem zaključku tega predmeta bo študent:

- sposoben pokazati znanje in razumevanje osnovnih pojmov področja obvladovanja informatike
- Razumel koncepte ogrodij/standardov COBIT 4.1, COBIT 5 and ITIL 3 in v okviru tega koncepte procesov informatike in organiziranosti informatike v podjetjih
- Razumel proces in koncepte strateškega planiranja informatike
- Razumel in uporabljal znanje področja Poslovne analize na podlagi standarda BABOK

Intended learning outcomes:

After the completion of the course a student will be able to:

- Understand the basic principles of IT governance
- Understand the concepts of frameworks/standards of: COBIT 4.1, COBIT 5 and ITIL 3. As part of that student will understand IT processes and concepts of IT organisation in companies
- Understand the process and the concepts of information systems strategic planning
- Understand and use the knowledge of the area of Busines analysis based on BABOK standard

<ul style="list-style-type: none"> Razumel in uporabljal znanje področja poslovno-informacijskih arhitektur Razumel vlogo direktorja informatike in ostalih ključnih strokovnjakov informatike v podjetjih. 	<ul style="list-style-type: none"> Understand and use of knowledge of the area of Enterprise architecture Understand the role of CIO (Chief Information Officer) and other key IT experts in companies.
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Metode poučevanja in učenja:

Predavanja in laboratorijske vaje ter seminarji. V okviru laboratorijskih vaj in seminarjev gre za skupinsko delo. Na predavanjih bodo v omejenem obsegu (10% do 15%) sodelovali strokovnjaki iz gospodarstva. Njihovo sodelovanje ne bodo le predavanja v ozjem pomenu besede, temveč tudi sodelovanje v diskusijah.

Learning and teaching methods:

Lectures, laboratory exercises and seminars. Laboratory exercises and seminars are organised as teamwork. On lectures, the participation and collaboration of experts from the industry is also planned: not only through pure lectures, but also taking part in discussions.

Načini ocenjevanja:

Način (pisni izpit, ustno izpraševanje, naloge, projekt):	Delež/Weight	Assessment:
• ena seminarska naloga	45,00 %	Type (examination, oral, coursework, project): • one project
• dva kolokvija med semestrom ali ustni izpit	45,00 %	Type (examination, oral, coursework, project): • two examinations during semester or oral examination
• sodelovanje na predavanjih Ocene: 6-10 pozitivno, 1-5 negativno (v skladu s Statutom UL).	10,00 %	Type (examination, oral, coursework, project): examination • active participation on lectures Grading: 6-10 pass, 1-5 fail. (According to the UL Statutes).

Reference nosilca/Lecturer's references:

Pet najpomembnejših del:

- HOVELJA, Tomaž, VASILECAS, Olegas, RUPNIK, Rok. A model of influences of environmental stakeholders on strategic information systems planning success in an enterprise. Technological and economic development of economy, ISSN 2029-4913. [Print ed.], 2013, vol. 19, no. 3, str. 465-488
- HOVELJA, Tomaž, VASILECAS, Olegas, RUPNIK, Rok . A novel approach for the evaluation of investments in preconfigured software products for enterprises that organisationally differ from enterprises in USA and Germany, Ciéncia e Técnica Vitivinícola Journal (ISSN: 0254-0223), v tisku
- HOVELJA, Tomaž, ROŽANEC, Alenka, RUPNIK, Rok. Measuring the success of the strategic information systems planning in enterprises in Slovenia. Management, ISSN 1331-0194, 2010, vol. 15, no. 2, str. 25-46
- Metodologija strateškega planiranje
- Rok Rupnik (glavni avtor s soavtorji). Enotna metodologija razvoja informacijskih sistemov. [Zv. 2], Strateško planiranje. 2. izd. Ljubljana: Vlada Republike Slovenije, Center Vlade RS za informatiko, 2003. XV, 446 str., ilustr. ISBN 961-6389-08-4

Glavni avtor strateških planov informatike za vsrto večjih slovenskih podjetij: SŽ, Elektro Celja, Elektro Ljubljana, ELES, Plinovodi, Dravske elektrnarne Maribor.