UČNI NAČRT PREDMETA/COURSE SYLLABUS	
Predmet	**Menedžment informatike**
Course title	**IT Management**

Študijski program in stopnja **Study programme and level**	**Študijska smer** **Study field**	**Letnik** **Academic year**	**Semester** **Semester**
Poslovna informatika / 1. stopnja	Poslovna informatika	3. letnik	5.
Business Informatics / 1st Cycle	Business Informatics	3rd year	5th

Vrsta predmeta/Course type	modularni / module

Univerzitetna koda predmeta/University course code	1_PI_3_M1_UN3

Predavanja **Lectures**	**Seminar** **Seminar**	**Sem. vaje** **Tutorial**	**Lab. vaje** **Laboratory work**	**Teren. vaje** **Field work**	**Samost. delo** **Individ. work**	**ECTS**
30		30			90	6

Nosilec predmeta/Lecturer:	izr. prof. dr. Marjan Krisper

Jeziki/ **Languages:**	**Predavanja/Lectures:**	slovenski/Slovenian
	Vaje/Tutorial:	slovenski/Slovenian

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:	**Prerequisites:**
• Vpis v tretji letnik študijskega programa. • Študent mora pred izpitom pripraviti in predstaviti seminarsko nalogo.	• The prerequisite for inclusion is enrolment in the third year of study. • Students have to successfully prepare and present a seminar paper before the examination.

Vsebina:	**Content (Syllabus outline):**
• *Opredelitev in pregled področij menedžmenta informatike:* uskladitev poslovne in IT domene, strateško planiranje informatike, poslovno-informacijska arhitektura, upravljanje projektnega portfelja in projektov, upravljanje IT storitev, pridobivanje virov in odločanje o zunanjem izvajanju	• *Definition and review of IT management areas:* business-IT alignment, strategic IS/IT planning, enterprise architecture, program and project management, IT service management, strategic sourcing and outsourcing decision, the role and competences of the Chief Information Officer (CIO).

storitev, vloga in kompetence vodja informatike.

- *Strateško planiranje informatike*: pregled metodologij strateškega planiranja, uskladitev s poslovno strategijo, strateški elementi (poslanstvo, vizija, usmeritve, cilji), analiza obstoječega stanja, tehnološka vizija, načrt informacijske tehnologije, prioritete projektov, operativni plan.
- *Upravljanje uresničevanja strateškega plana informatike:* upravljanje sprememb, posodabljanje strateškega plana informatike, zagotavljanje skladnosti s poslovno strategijo, upravljanje portfelja projektov in aplikacij, naložbene odločitve, letno planiranje informatike.
- *Menedžment izvajanja IT storitev:* zagotavljanje skladnosti IT storitev s poslovnimi potrebami in prioritetami, optimizacija IT stroškov, zagotavljanje interoperabilnosti storitev, zagotavljanje varnosti IT storitev, podpora uporabnikom, razvoj/nabava novih IT rešitev, vzdrževanje obstoječih IT rešitve in opreme.
- *Organiziranost informatike:* različne vrste organizacijskih shem, IT vloge ter njihove ključne kompetence in odgovornosti.
- *Ekonomika informatike:* stroški in koristi IT (oprijemljive, neoprijemljive), naložbene odločitve v IT, metode (ekonomika informatike, uravnoteženi sistem kazalnikov, analiza stroškov in koristi, večparametrski odločitveni modeli).
- *Poslovno-informacijska arhitektura (PIA):* arhitekturni standard ISO 42010, arhitekturne ravni (strateška, poslovna, aplikativna, tehnološka…), povezovanje ravni, pregled PIA ogrodij in standardov.
- *Arhitekturno standard in modelirni jezik ArchiMate:* modeliranje strateških vidikov organizacije in njihovo povezovanje s poslovnimi gradniki.
- *Uporaba pristopa PIA pri razvoju strategije informatike ter njeni implementaciji.*
- *V okviru laboratorijskih vaj:* se študent nauči uporabljati modelirni jezik ArchiMate, izdela konkretne primere modelov PIA

- *Strategic IS/IT planning and the plan implementation management:* review of strategic IS/IT planning methodologies, business-IT alignment, strategic elements (mission, vision, goals, objectives), analysis of the existing situation, technological vision, information technology plan, projects priorities, operational plan.
- Managing the strategic IT plan implementation: change management, updating the strategic IT plan, ensuring compliance with the business strategy, managing the portfolio of projects and applications, investment decisions, annual IT planning.
- *IT service management:* ensuring IT services compliance with business needs and priorities, optimizing IT costs, ensuring interoperability of IT services, ensuring the security of IT services, user support, developing/ purchasing new IT solutions, maintaining existing IT solutions and equipment.
- *Organizing the IT function:* IT function organizational charts, IT roles and their core competences and responsibilities.
- *IT economics:* IT costs and benefits (tangible, in tangible), IT investment decisions, methods (information economics, balanced scorecard, cost benefit analysis, multi-attribute decision models)
- *Enterprise architecture:* architecture description standard ISO 42010, architecture layers (strategic, business, application and technology…), layers integration, overview of EA frameworks and standards.
- *Architecture standard and modelling language* ArchiMate: modelling the strategic aspects of the organization and integrating them with business elements.
- *Use of EA approach in IT strategy development and its implementation.*
- *In laboratory exercises:* students learn to use modelling language ArchiMate, develop concrete examples of EA models (mainly strategic level), learn

(predvsem strateški nivo), se nauči uporabiti PIA modele pri načrtovanju IT strategije ter obvladovanju njene implementacije. Na praktičnih primerih preizkusi različne metode in modele za odločanje o naložbah v IT.	how to use EA models for IT strategy development and its implementation governance. In practical cases, they try out different methods and models for IT investment decisions.

Temeljna literatura in viri/Readings:

Temeljna literatura/Basic literature

- Peppard, J. in Ward, J. (2016). The Strategic Management of Information Systems: Building a Digital Strategy. John Wiley & Sons.
- Selig, G. J. (2015). Implementing Effective IT Governance And IT Management. Van Haren Publishing.

Priporočljiva literatura/Recommended literature

- Krisper, M. in Rožanec, A. (2005). Obvladovanje informatike v poslovnih sistemih: pomen strategije in arhitektur. Uporabna informatika, 3(4):185-198.
- ArchiMate: http://pubs.opengroup.org/.

Cilji in kompetence: / Objectives and competences:

Cilji in kompetence:	Objectives and competences:
Učna enota prispeva predvsem k razvoju naslednjih splošnih in specifičnih kompetenc:	*The learning unit mainly contributes to the development of the following general and specific competences:*
• poznavanje in razumevanje procesov v tehniško-tehnološkem ter poslovnem okolju in sposobnost za njihovo analizo, sintezo in predvidevanje rešitev ter njihovih posledic,	• knowledge and understanding of processes in the technical-technological and business environment, as well as the ability for their analysis, synthesis and prediction of the solutions and their consequences,
• sposobnost definiranja, razumevanja in ustvarjalnega reševanja strokovnih izzivov na področjih računalništva in informatike,	• the ability to define, understand and creatively solve professional challenges in the fields of computer science and informatics,
• usposobljenost za permanentno spremljanje in presojo dogajanj na področju računalništva in informatike,	• being qualified for continuous monitoring and assessment of events in the field of computer science and informatics,
• usposobljenost za pridobivanje novih in poglabljanje pridobljenih strokovnih znanj računalništva in informatike,	• the ability to acquire new and deepen the acquired professional knowledge of computer science and informatics,
• usposobljenost za razvijanje komunikacijskih sposobnosti in spretnosti v domačem in mednarodnem okolju,	• the ability to develop communication competences and skills in the domestic and international environment,
• razvijanje poklicne identitete, profesionalne odgovornosti in etičnosti,	• developing occupational identity, professional responsibility and ethics,
• razumevanje in sposobnost umeščanja računalniških in informacijskih znanj na različna področja tehnike in druga strokovno relevantna področja (ekonomija, poslovanje, organizacijske vede itd.).	• understanding and the ability to place computer and information knowledge into various fields of technics and other

	professionally relevant fields (economics, business, organizational sciences, etc.).

Predvideni študijski rezultati: | **Intended learning outcomes:**

Študent/študentka:	*Students:*
• pozna metodologije, ogrodja in najboljše prakse menedžmenta informatike, • pozna proces strateškega planiranja informatike in upravljanja njegovega uresničevanja v organizaciji, • pozna upravljalske naloge pri pridobivanju, izvajanju in vzdrževanju IT storitev in infrastrukture, • pozna in razume metode ekonomike informatike in jih zna uporabiti pri izdelavi strateškega plana in naložbenih odločitvah v IT, • pozna različne vrste organiziranosti informatike, IT vloge ter njihove ključne kompetence in odgovornosti, • razume pomen poslovno-informacijske arhitekture za upravljanje organizacije in njenega informacijskega sistema, • zna uporabiti pristop PIA in ArchiMate modele pri izdelavi in uresničevanju strateškega plana informatike, • v okviru laboratorijskih vaj se nauči uporabiti sodobna orodja za zajem in upravljanje poslovno-informacijske arhitekture na konkretnih primerih.	• are familiar with methodologies, frameworks and best practices of IT management, • are familiar with the strategic IS/IT planning process and the plan implementation management in an enterprise, • know the management tasks in acquiring, implementing and maintaining IT services and infrastructure, • know and understand the methods of IT economics and their use in the strategic IS/IT planning process and at IT investment decisions, • know various types of IT organization, IT roles and their key competences and responsibilities, • understand the role of the enterprise architectures for enterprise and IS management, • can use the EA approach and ArchiMate models at development and implementation of a strategic IS/IT plan, • learn how to use modern tools for enterprise architecture development and management on concrete examples in the context of laboratory work.

Metode poučevanja in učenja: | **Learning and teaching methods:**

| • *predavanja* z aktivno udeležbo študentov (razlaga, diskusija, vprašanja, primeri, reševanje problemov),
• *seminarske vaje:* priprava, predstavitev in uspešen zagovor seminarske naloge, portfolio (reševanje problemov, študije primera, kritično presojanje, diskusija, refleksija izkušenj, vrednotenje, projektno delo, timsko delo),
• *samostojni študij.* | • *lectures* with active participation of students (explanation, discussion, questions, examples, problem solving),
• *seminar tutorial:* preparation, presentation and a successful defence of a seminar paper, portfolio (problem solving, case studies, methods of critical thinking, discussion, reflection of experience, evaluation, project work, teamwork),
• *independent study.* |

Načini ocenjevanja:	Delež (v %) Weight (in %)	Assessment:

Načini:
   • izpit
   • izdelava, predstavitev in zagovor seminarske naloge
 	
Ocenjevalna lestvica: ECTS.
	60 %
	40 %
		Types:
		   • exam
		   • preparation, presentation and defence of the seminar paper
		
		Grading scheme: ECTS.