

	UČNI NAČRT PREDMETA/COURSE SYLLABUS
Predmet	Osnove informacijskih sistemov
Course title	Information Systems Basics

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Poslovna informatika 1	Poslovna informatika	1.	1.
Business Informatics 1	Business Informatics	1 st	1 st

Vrsta predmeta/Course type obvezni/obligatory

Univerzitetna koda predmeta/University course code 1N503

Predavanja Lectures	Seminar Seminar	Sem. vaje Tutorial	Lab. vaje Laboratory work	Teren. vaje Field work	Samost. delo Individ. work	ECTS
30			45		75	6

Nosilec predmeta/Lecturer: Doc. dr. Alenka Rožanec

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

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

<ul style="list-style-type: none"> • Pogoj za vključitev v delo je vpis v 1. letnik študija. • Študent mora pred izpitom pripraviti in predstaviti seminarsko nalogo. 	<ul style="list-style-type: none"> • The prerequisite for participation is enrolment in the first year of study. • Students have to successfully prepare and present a seminar paper before the examination.
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Vsebina:

Content (Syllabus outline):

<ul style="list-style-type: none"> • <i>Uvod.</i> Informacijska družba, zgodovina razvoja računalništva. • <i>Osnovno o informatiki.</i> Pojmovanje informatike, osnove kibernetike, osnove teorije sistemov, osnovno o informacijskem sistemu in informacijskem procesu. • <i>Informacijska tehnologija.</i> Računalniški sistem in njegovo delovanje, telekomunikacija in telekomunikacijski sistemi, komunikacijsko-informacijski proces, standardizacija el. komunikacij, računalniško omrežje, razvoj interneta in njegove storitve, programska oprema in delitev le te. • <i>Elektronsko poslovanje.</i> Pojmovanje in zgodovina e-poslovanja, vrste in oblike 	<ul style="list-style-type: none"> • <i>Introduction.</i> Information society, the history of computer science. • <i>Informatics basics.</i> Conception of informatics, cybernetics, systems theory basics, the basics of the information system and information process. • <i>Information Technology.</i> Computer system and its operation, telecommunications and telecommunication systems, communication and information process, standardization of el. communications, computer network, development of the Internet and its services, software and its division. • <i>Electronic business.</i> Conception and understanding of the history of e-
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<p>e-poslovanja, sestavine e-poslovanja.</p> <ul style="list-style-type: none"> • <i>Informacijski sistem (v nadaljevanju IS).</i> Opredelitve IS, procesni vidik IS, organizacijska struktura IS, razvrščanje IS, lastnosti IS, cilji IS. • <i>Prvine informacijske organizacije (v nadaljevanju IO).</i> Podatek-> informacija->znanje, transformacijski cikel prvin IO, upravljanje s prvinami IO, ekspertni sistemi in upravljanje z njimi. • <i>Razvoj informacijskih sistemov.</i> Osnove strateškega planiranja informatike, življenjski cikel IS, pristopi in metodologije razvoja IS, standardizacija razvoja IS, modeliranje procesov in podatkov, osnovno o bazah podatkov, osnovno o podatkovnih skladiščih. • <i>Varnost IS.</i> Računalniška etika, zlonamerna programska oprema in zaščita pred njo, licenčni modeli programske opreme, osnovni pojmi informacijske varnosti, načini zagotavljanja informacijske varnosti, ukrepi za blažitve tveganj. 	<p>business, types and forms of e-business, e-business components.</p> <ul style="list-style-type: none"> • <i>Information System (IS).</i> The definition of the IS, the process aspect of the IS, the IS organizational structure, classification IS, IS characteristic, IS objectives. • <i>Elements of Information Organization (IO).</i> Data -> Information -> knowledge, transformation cycle of IO elements, management of IO elements, expert systems and management. • <i>Development of information systems.</i> Basics of strategic IS/IT planning, the life cycle of IS development, approaches and methodologies of IS development, process and data modelling, basics of databases and data warehouses. • <i>IS Security.</i> Computer ethics, malware and security protection, licensed software models, the basic concepts of information security, ways of ensuring information security, risk-reduction measures.
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Temeljna literatura in viri/Readings:

Temeljna literatura/Basic literature

Gradišar, M. et al. (2005). Osnove poslovne informatike. Ljubljana: Ekonomska fakulteta Univerze v Ljubljani.

Gradišar, M. et al. (2012). Osnove poslovne informatike. Ljubljana: Ekonomska fakulteta Univerze v Ljubljani.

Kovačič, A. et al. (2004). Prenova in informatizacija poslovanja. Ljubljana: Ekonomska fakulteta Univerze v Ljubljani.

Priporočljiva literatura/Recommended literature

Beynon, P. D. (2009). Business Information Systems. New York: Palgrave Macmillian.

Cilji in kompetence:

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

- poznavanje in razumevanje procesov v poslovnem okolju organizacije in sposobnost za njihovo analizo, sintezo in predvidevanje rešitev in njihovih posledic;
- fleksibilna uporaba znanja v praksi;
- ozaveščenost o zmožnostih in omejitvah informacijskih tehnologij;
- razumevanje računalniških sistemov in arhitektur;
- poznavanje in razumevanje temeljnih

Objectives and competences:

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

- knowledge and understanding of the processes in the business environment of the organization and its capacity for analysis, synthesis and forecasting solutions and their implications;
- flexible use of knowledge in practice;
- awareness of the capabilities and limitations of information technologies;
- understanding computer systems and architectures;

<ul style="list-style-type: none"> • pojmov s področja IS; • razumevanje različnih tipov informacijskih sistemov, predvsem njihovega pomena za podporo poslovanju sodobnih organizacij; • razumevanje pomena IS, predvsem z vidika podpore poslovnih in odločitvenih procesov; • zmožnost aktivnega sodelovanja pri določanju zahtev IS za sodobne organizacije; • ozaveščenost o zmožnostih in omejitvah informacijskih tehnologij; • razumevanje ekonomskih vidikov in učinkovitosti IS. • znanje uporaba pisarniških orodij. 	<ul style="list-style-type: none"> • knowledge and understanding of basic concepts in the field of IS; • understanding the different types of information systems, in particular their relevance for contemporary business support; • understanding the importance of IS, particularly in terms of business support and decision-making processes; • the ability to participate actively in determining the requirements of IS for modern organizations; • awareness of the capabilities and limitations of information technologies; • understanding of the economic aspects and the effectiveness of IS. • knowledge of use of office tools.
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Predvideni študijski rezultati:

Znanje in razumevanje:

Študent/Študentka:

- pozna osnovne pojme s področja IS;
- razume problem entropije;
- pozna različne tipe IS s poudarkom na razumevanju njihovih možnosti in potencialov za učinkovito podporo poslovanju;
- pozna in razume posebnosti tehnologij s področja IS;
- v okviru laboratorijskih vaj spozna sodobna razvojna orodja za transakcijske sisteme;
- v okviru laboratorijskih vaj se nauči oblikovati dokumente, uporabljati preglednice za reševanje poslovnih problemov in pripravljati predstavitve poslovnih idej.
- razume pojem in pomen informacijske družbe;
- razume pomen ekonomskega vidika IS.

Intended learning outcomes:

Knowledge and understanding:

Students:

- are familiar with the basic concepts of IS;
- understand the problem of entropy;
- know the different types of systems with an emphasis on understanding their opportunities and potentials to effectively support the business;
- know and understand the specificities of technologies in the field of IS;
- in the context of laboratory practice meet with modern development tools for transaction systems;
- in the context of laboratory practice learn how to format documents, use spreadsheets to solve business problems and prepare presentations of business ideas.
- understand the concept and importance of the information society;
- understand the importance of the economic aspect of IS.

Metode poučevanja in učenja:

- *predavanja* z aktivno udeležbo študentov;
- *laboratorijske vaje* z uporabo računalniških orodij za pisarniško delo in razvoj programske opreme;
- *samostojni študij*.

Learning and teaching methods:

- *lectures* with active participation of students;
- *laboratory work* using computer tools for office work and software development;
- *individual study*.

Načini ocenjevanja:	Delež (v %) Weight (in %)	Assessment:
Način (pisni izpit, ustno spraševanje, naloge, projekt): <ul style="list-style-type: none"> • pisni (ustni) izpit • seminarska naloga s predstavitvijo in zagovorom 	60 40	Types (written examination, oral examination, coursework, project): <ul style="list-style-type: none"> • written (oral) exam • seminar presentation and defence