UČNI NAČRT PREDMETA / COURSE SYLLABUS	
Predmet:	**OSNOVE INFORMACIJSKE TEHNOLOGIJE**
Course title:	FUNDAMENTALS OF INFORMATION TECHNOLOGY

Študijski program Study programme and level	**Študijska smer Study field**	**Letnik Academic year**	**Semester Semester**
RAČUNOVODSTVO IN FINANCE 1. bolonjska stopnja	RAČUNOVODSTVO, FINANCE	1	1
ACCOUTING AND FINANCE bachelors degree	ACCOUNTING, FINANCE	1	1

Vrsta predmeta / Course type REDNI / core course

Univerzitetna koda predmeta / University course code: 1.R.5

Predavanja Lectures	**Seminar Seminar**	**Sem. vaje Tutorial**	**Lab. vaje Laboratory work**	**Teren. vaje Field work**	**Samost. delo Individ. work**	**ECTS**
20	0	20	0	0	85	5

Nosilec predmeta / Lecturer: Dr. TOMAŽ KRALJ, viš. pred. / Dr. TOMAŽ KRALJ, senior lecturer

Jeziki / Languages:	**Predavanja / Lectures:**	SLOVENSKO / SLOVENIAN
	Vaje / Tutorial:	SLOVENSKO / SLOVENIAN

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:	**Prerequisits:**
Brez	None

Vsebina:

1. Osnove informacijskih sistemov: informacije, vrste informacijskih sistemov (IS) 2. Razvoj informacijskih sistemov: pregled programskih jezikov, strukturni in objektni pristop, arhitekturni stili, monolitne aplikacije, sistemi odjemalec/strežnik, večslojni informacijski sistemi 3. Predstavitveni nivo: uporabniški vmesnik, portalni sistemi, upravljanje vsebin 4. Poslovna logika: vloga in pomen sloja poslovne logike, pomen transakcijske integritete, zagotavljanje varnosti dostopa 5. Trajno stanje podatkov: shranjevanje podatkov, entitetno-relacijskega model, povpraševalni jezik SQL 6. Življenjski cikli informacijskih sistemov:	1. Introduction to Information Systems: information, the types of Information Systems (IS) 2. Development of Information Systems: an overview of programming languages, structural and object approach, architectural styles; monolithic applications, client / server, multi-layered information systems 3. Presentation layer: user interface, portal systems, content management 4. Business logic: the role and importance of the business logic layer, the importance of transactional integrity, security access 5. Data: data storage, entity-relational model, SQL query language 6. Life cycle of an IS: overview of process

pregled procesnih modelov, pregled poglavitnih faz življenskega cikla, pregled faze zbiranja zahtev; prototipiranje, orodja CASE 7. Integracija aplikacij: vrste integracij, namen integracij, izzivi, zanke in pasti, proces integracije, pregled ERP (Emterprise Resource Planning) sistemov, pregled CRM (Customer Relationship Management) in PRM (Partner Relationship Management) sistemov, pregled SCM (Supply Chain Management) sistemov	models, an overview of the main phases of the life cycle, review the requirements-gathering phase, the structure of the document software requirements specifications, prototyping, CASE tools 7. Application integration: integration types, the purpose of integration, challenges, and pitfalls loop integration process, review of ERP (Enterprise Resource Planning) systems, review of CRM (Customer Relationship Management) and PRM (Partner Relationship Management) systems, review of SCM (Supply Chain Management) systems

Temeljni literatura in viri / Readings:

Efraim Turban, R. Kelly Rainer, Richard E. Potrer: Introduction to Information Technology. John Willey & Sons. USA 2005.

Cilji in kompetence:	**Objectives and competences:**
Študenti pridobijo splošne in predmetno specifične kompetence: • Fleksibilna uporaba pridobljenega znanja v praksi • Razumevanje osnov informacijskih sistemov, arhitekturnih modelov, načina razvoja informacijskih, CRM, PRM in SCM sistemov, osnov ERP • Razumevanje življenjskega cikla razvoja informacijskih sistemov, zbiranje in specifikacija zahtev in razumevanje prototipiranja	Students acquire the generic and subject specific competences: • Flexible use of this knowledge in practice • Understanding the basics of information systems, architectural models, ways of development of IT, CRM, PRM and SCM systems, the basics of ERP • Understanding the life cycle of information systems development, requirements gathering and specification and understanding of prototyping

Predvideni študijski rezultati:	**Intended learning outcomes:**
Znanje in razumevanje: • Znanje osnov informacijskih sistemov • Sposobnost opredeliti predstavitveni nivo aplikacije • Poznavanje modeliranja podatkov • Sposobnost opredeliti ključne značilnosti integracij aplikacij	Knowledge and Understanding: • Knowledge and Understanding: • Knowledge of the fundamentals of information systems • Ability to define the presentation layer applications • Knowledge of data modeling • Ability to identify the key features of Application Integration

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

• Predavanja • Individualno delo študenta • Priprava seminarske naloge	• Lectures • Individual learning • Preparation of seminars

Načini ocenjevanja:	**Delež (v%) / Weight (in %)**	**Assessment:**
Pisni izpit	60 %	written examination
Priprava seminarske naloge sodelovanje v študijskem procesu	40 %	Preparation of a seminar Cooperation during the course

Reference nosilca: **Lecturer's references:**

dr. Tomaž Kralj je zaposlen na Davčni upravi Republike Slovenije. Je predavatelj, član programskega odbora DSI ter notranji presojevalec ISO 9001. Raziskovalno področje: merjenje PO, kakovost PO, odličnost, informacijska varnost.

Tomaž Kralj holds a Ph.D. in computer and information science. He has been employed at the Tax Administration of the Republic of Slovenia. He is a lecturer, a member of the Programme Committee of DSI and internal auditor ISO 9001. Research field: measurement of PO, PO quality, excellence, information security.