

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Informacijski sistemi
Course title:	Information Systems

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Informacijska družba, doktorski študijski program tretje stopnje	-	Prvi	Prvi
Information Society, third cycle Doctoral Study Programme	-	First	First

Vrsta predmeta / Course type Izbirni/ Optional

Univerzitetna koda predmeta / University course code: 1-ID-DR-IP-IS-2016-06-21

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje work	Druge oblike študija	Samost. delo Individ. work	ECTS
10	30	/	/	/	410	15

Jeziki / Languages:

Predavanja / Lectures:	Slovenski / Slovenian, Angleški / English
Vaje / Tutorial:	Slovenski / Slovenian, Angleški / English

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

Vpis v prvi letnik študija.

Prerequisites:

Enrolment in the first year of studies.

Vsebina:

Predmet bo usmerjen k sodobnim znanjem in raziskavam za namene razvoja področja informatike v sodobni družbi. Predvideni so naslednji tematski sklopi:

- Informacijske tehnologije kot komponente informacijskih sistemov: cilji organizacij z uporabo informacijskih sistemov, strateške komponente, tipi informacijskih sistemov, vloge v razvoju IS, obvladovanje kompleksnosti, modeli informacijskih sistemov in vpliv na organizacije.
- Informacijski sistemi in kakovost: informacija in kakovost informacije, sistemi in njihova kakovost, zahteve, delovne poti, meritve informacij in

Content (Syllabus outline):

The course is focused on contemporary knowledge and research for the purpose of developing the field of informatics in contemporary society. Course contains the following themes:

- Information technology as a component of information systems: the objectives of organizations using information systems, strategic components, types of information systems, the role of developing, managing complexity, models of information systems and their impact on the organization.
- Information systems and quality: quality of information, information systems and their quality,

dogodki.

- Izvajanje odločitev: karakteristike informacijskih sistemov, modeli za izvajanje odločitev, osebni cilji in odločitve, kognitivni procesi.
- Planiranje in razvoj IS: razvoj in vodenje, metodologije projektnega vodenja razvoja IS, področja planiranja in vodenja projektov razvoja informacijskih sistemov.

requirements, working path, information metrics, and events.

- Implementation of decisions: characteristics of information systems, models for the implementation of decisions, personal goals and decisions, cognitive processes.
- Planning and development of IS: development and management, project management methodology development IS the planning and management of information systems development project.

Temeljni literatura in viri / Readings:

- Stair, R., Reynolds, R.: Principles of Information Systems, 12th Edition, Cengage Learning, USA, 2015.
- Avison, D. E. Torkzadeh, G.: Information Systems Project Management, SAGE, 2008.
- Taylor, J.: Managing information technology projects ~ applying project management strategies to software, hardware, and integration initiatives, AMACOM: American Management Association, New York, NY, USA, 2003.
- Laudon, K.C, Laudon, J.P: Management Information Systems: Managing the Digital Firm, 13th Edition, Prentice Hall, USA, 2013.
- Bohanec, M.. Odločanje in modeli, (Učbeniki in priročniki). Ljubljana: DMFA - založništvo, 2006.
- Howson C.: Successful Business Intelligence: Secrets to Making BI a Killer App, 2008
- Šuhel, P., Mertik, M., Tovšak, P.: Informacijska tehnologija : projektno vodenje. Ljubljana: samozal. P. Šuhel; Ormož: samozal. M. Mertik; Mislinja: samozal. P. Tovšak, 2009.

Cilji in kompetence:

Učna enota prispeva k razvoju naslednjih splošnih in predmetno-specifičnih kompetenc:

- sposobnost identificiranja danega raziskovalnega problema, njegove analize ter možnih rešitev
- ustvarjanje novega znanja, ki pomeni relevanten prispevek k razvoju znanosti
- sposobnost obvladavanja standardnih metod, postopkov in procesov raziskovalnega dela na različnih znanstvenih področjih
- poznavanje pomena kakovosti in prizadevanje za kakovost strokovnega dela skozi avtonomnost, (samo)kritičnost, (samo)refleksivnost in (samo)evalviranje
- zavezanost profesionalni etiki

Objectives and competences:

Learning unit contributes to the development of the following general and subject-specific competences:

- the ability to identify, analyze and construct solution a given research problem
- the creation of new knowledge and contribution to the development of science
- mastery of standard methods, approaches and processes of scientific research in various scientific fields
- mastery of scientific quality and effort towards the quality of professional work through independence, self-criticism, self-reflection and self-evaluation
- respect for scientific ethics
- ability of innovative combined usage

- sposobnost inovativne uporabe in kombiniranja raznih raziskovalnih metod
- razvoj veščin in spretnosti v uporabi znanja na raziskovalnem področju doktorske disertacije
- sposobnost pridobivanja, selekcije, ocenjevanja in umeščanja novih znanj in zmožnost interpretacije v kontekstu družboslovja in ostalih ved
- sposobnost kompleksnega sistemskega pogleda na družbo in interdisciplinarnega pristopa, ki se kaže kot razumevanje splošne strukture družbenih ved ter povezanosti med njenimi posameznimi disciplinami in poddisciplinami

- of various research methodologies
- development of skills and abilities in usage of knowledge in doctoral research
- the ability to extract, select, evaluate and insert new knowledges and the competence of interpretation in the context of social and other sciences
- ability of complex systemic perspective on the society and interdisciplinary approach, which demonstrates the understanding of general structure of social sciences and links among their disciplines and sub-disciplines

Predvideni študijski rezultati:

Znanje in razumevanje:

Študent/študentka:

- pozna aktualna raziskovalna vprašanja na področju informatike v sodobni družbi;
- obvlada ključne raziskovalne metod, ki so relevantne za preučevanje kompleksnih družbenih problemov s področja informacijske tehnologije;
- ima sposobnost implementacije informacijske tehnologije v okviru raziskav v drugih znanstvenih disciplinah;
- demonstrira poznavanje najnovejših pristopov razvoja informacijskih sistemov;
- je sposoben/a ovrednotiti učinkovitost izbranega pristopa k razvoju in vpeljavi informacijskega sistema v organizaciji;
- je sposoben/a prezentacije svojih raziskovalnih rezultatov v znanstvenih publikacijah in na znanstvenih konferencah.

Intended learning outcomes:

Knowledge and understanding:

The student:

- is familiar with current research questions in the field of information technology in modern society;
- masters key research methods that are relevant for the study of complex social problems in the field of information technology;
- gains the ability of the implementation of information technology in the context of research in other scientific disciplines;
- demonstrates knowledge of the latest approaches to information systems development;
- is able to evaluate the effectiveness of the selected approach to the development and implementation of an information system in an organization;
- is able to present their research results in scientific journals and scientific conferences.using simulation tools.

Metode poučevanja in učenja:

- *Predavanja* z aktivno udeležbo študentov; kratka razlaga, diskusija, razprava na primerih, reševanje problematike.
- *Seminarsko delo* v obliki priprave projektne naloge: predlog raziskovalnega projekta, utemeljitev raziskave, poročanje o rezultatih in podajanje predloga rešitev.
- *Individualno delo* študentov; samostojni študij znanstvene in strokovne literature in rezultatov raziskav.

Learning and teaching methods:

- *Lectures* with active participation of students; a brief explanation, discussion, debate on cases dealing with the problems.
- *Seminar* in the form of preparation of project tasks: a proposal for a research project justification research, reporting results and delivering solutions to the proposal;
- *Individual work* of students; independent study of scientific and professional literature and research results.

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

Način (pisni izpit, ustno izpraševanje, naloge, projekt):	Delež (v %) / Weight (in %)	Assessment: Type (examination, oral, coursework, project):
<ul style="list-style-type: none"> • Projektna naloga 	100	<ul style="list-style-type: none"> • Project assignment