

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet: Projekti informacijskih tehnologij
Course title: Information Technology Projects

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Informatika v sodobni družbi, magistrski študijski program druge stopnje	-	Prvi	Drugi
Informatics in Contemporary Society, second cycle Masters Study Programme	-	First	Second

Vrsta predmeta / Course type

Obvezni / Obligatory

Univerzitetna koda predmeta / University course code:

1-ISD-MAG-PIT-2025-01-17

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje work	Druge oblike študija	Samost. delo Individ. work	ECTS
25	-	25	-	-	160	7

Nosilec predmeta / Lecturer:

doc. dr. Nuša Erman

Jeziki / Languages:

Predavanja / Lectures: Slovenski, angleški / Slovene, English

Vaje / Tutorial: Slovenski, angleški / Slovene, English

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

Ni posebnih pogojev za vključitev v delo.

Prerequisites:

No special requirements.

Vsebina:

- osnove projektnega vodenja
- IKT orodja za vodenje projektov
- projekt informacijskih tehnologij: projektno vodenje in aktivnosti projektne skupine
- identifikacija in razvoj naročnikovih zahtev
- organiziranje projektne skupine
- komuniciranje projektne skupine
- razvoj načrta projekta informacijskih tehnologij

Content (Syllabus outline):

- basics of project management
- ICT tools for project management
- IT projects: project management and activities of the project group
- identification and development of the client's requirements
- organizing project group
- communications in project group
- development of the project plan
- risk management in IT projects

- upravljanje tveganj v projektih IT
- sistemski pristop v upravljanju projektov
- monitoring projekta in nadzor
- hiter razvoj v IT projektih
- zaključevanje projekta

- systematic approach to project management
- project monitoring and control
- the rapid development of IT projects
- conclusion of the project

Temeljni literatura in viri / Readings:

- Garrison, C., Ivison, J., Rather, J. & Scott, C. (2024). *Information Technology Project Management: An Integrated Approach (1st edition)*, Cognella Academic Publishing.
- Wsocki, R. K. (2019). *Effective Project Management: Traditional, Agile, Extreme, Hybrid (8th ed.)*. Wiley.
- Kim, G., Behr, K., & Spafford, G. (2018). *The Phoenix Project: A Novel About IT, DevOps, and Helping Your Business Win (5th Anniversary ed.)*. IT Revolution Press.
- Phillips, J. (2018). *PMP Project Management Professional Study Guide (5th edition)*, McGraw-Hill.
- DeGrandis, D. (2022). *Making Work Visible: Exposing Time Theft to Optimize Work & Flow (2nd edition)*. IT Revolution Press.

Cilji in kompetence:

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

- sposobnost uporabe informacijsko-komunikacijske tehnologije in sistemov na področju družboslovja
- usposobljenost za načrtovanje informacijskih sistemov in razvoja aplikacij e-poslovanja v sodobni družbi
- sposobnost analize stanja na področju informatizacije organizacije in izdelave predlogov za izboljšanje stanja
- načrtovanje in obvladovanje sprememb ob oblikovanju celovite ocene stanja na področju informatizacije v organizaciji z upoštevanjem relevantnih vidikov
- sposobnost vodenja in vzdrževanja informacijskega sistema in posameznih aplikacij informacijsko komunikacijske tehnologije

Objectives and competences:

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

- the ability to use information communication technology and systems in the field of social sciences
- competence to plan information systems and develop applications of e – business in contemporary society
- competence to analyse the state in the field of informatisation of an organisation and generate suggestions for the improvement of said state
- planning and change management during comprehensive state evaluation in the field of informatisation considering various relevant aspects
- the ability to manage and maintain an information system and individual applications of information communication technology

Predvideni študijski rezultati:

Znanje in razumevanje:
<i>Sposobnost študenta/šudentke bo:</i>
<ul style="list-style-type: none"> • priprava in vodenje projekta informacijskih tehnologij • nadzor izvajanja projektov informacijskih tehnologij • poznavanje in uporaba IKT za vodenje projektov

Intended learning outcomes:

Knowledge and understanding:
Students ability:
<ul style="list-style-type: none"> • preparation and management of information technology projects • monitoring the implementation of information technology projects • knowledge and use ICT for project management

Metode poučevanja in učenja:

<ul style="list-style-type: none"> • <i>predavanja z aktivno udeležbo študentov (razlaga, diskusija, vprašanja, primeri, reševanje problemov);</i> • <i>vaje (spoznavanje IKT za vodenje projektov);</i> • <i>asinhrono aktivnosti v spletni učilnici Moodle.</i>
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Learning and teaching methods:

<ul style="list-style-type: none"> • <i>lectures with active participation of students (explanation, discussion, questions, examples, problem solving);</i> • <i>tutorial (learning about ICT project management);</i> • <i>asynchronous activities in the Moodle online classroom.</i>
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Delež (v %) /
Weight (in %)

Načini ocenjevanja:

Način (pisni izpit, ustno izpraševanje, naloge, projekt):
<ul style="list-style-type: none"> • pisni izpit • priprava projekta

Assessment:

Type (examination, oral, coursework, project):
<ul style="list-style-type: none"> • written exam • project preparation

Reference nosilca / Lecturer's references:

<ul style="list-style-type: none"> • ROJKO, Katarina, ERMAN, Nuša. The Impact of the Covid-19 Pandemic on Higher Education Students' Perceptions of Educational Applications and Platforms. International Journal of Cognitive Research in Science, Engineering and Education. 2023, vol. 11, no. 2, str. 267-279, ilustr. ISSN 2334-8496. https://ijcrsee.com/index.php/ijcrsee/article/view/2500/972, DOI: 10.23947/2334-8496-2023-11-2-267-279. [COBISS.SI-ID 162876675] • ROJKO, Katarina, LESJAK, Dušan, ERMAN, Nuša. The COVID-19 Pandemic Crisis: impact on ICT spending. Journal of computer information systems. 2023, vol. 63, iss. 4, str. 1-16, ilustr. ISSN 0887-4417. DOI: 10.1080/08874417.2022.2103857. [COBISS.SI-ID 117632003] • ERMAN, Nuša, ROJKO, Katarina, LESJAK, Dušan. Traditional and new ICT spending and its impact on economy. Journal of computer information systems. 2022, vol. 62, iss. 2, str. 384-396, ilustr. ISSN 0887-4417. https://www.tandfonline.com/doi/full/10.1080/08874417.2020.1830007, DOI: 10.1080/08874417.2020.1830007. [COBISS.SI-ID 44760067]

ROJKO, Katarina, ERMAN, Nuša, JELOVAC, Dejan. Impacts of the transformation to industry 4.0 in the manufacturing sector: the case of the U.S. Organizacija: revija za management, informatiko in kadre. [Tiskana izd.]. Nov. 2020, vol. 53, no. 4, str. 287-305, ilustr. ISSN 1318-5454.
<http://organizacija.fov.uni-mb.si/index.php/organizacija/article/view/1387>,
Digitalna knjižnica Slovenije - dLib.si, DOI: 10.2478/orga-2020-0019. [COBISS.SI-ID 41158147]