



Univerza v Mariboru

Fakulteta za naravoslovje
in matematiko

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	SPLETNE STORITVE V IZOBRAŽEVANJU
Course title:	WEB SERVICES IN EDUCATION

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Izobraževalna tehnika		2	poletni
Educational Design		2	summer

Vrsta predmeta / Course type

Univerzitetna koda predmeta / University course code:

Predavanja Lectures	Seminar Seminar	Sem. vaje Tutorial	Lab. Vaje Lab. Work	Teren. vaje Field work	Samost. delo Individ. work	ECTS
15	15				60	3

Nosilec predmeta / Lecturer:

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

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

Ni posebnih zahtev.

Prerequisites:

None.

Vsebina:

Content (Syllabus outline):

Predavanja:

- Splet v izobraževanju
- Najpomembnejše internetne aplikacije: spletni strežniki, odjemalci strežniki in protokol (HTTP, FTP, e-pošta, pretočne vsebine)
- Distribucijski sistemi za izobraževalne vsebine
- Sistemi za upravljanje s spletnimi vsebinami (CMS)
- Sistemi za upravljanje z učnimi okolji (LMS/CMS)
- Komunikacijski sistemi v izobraževanju
- Razvoj spletnih strani.

Vaje in seminar:

- reševanje praktičnih problemov;
- izdelava seminarske naloge.

Lectures:

- Educational web
- Important web applications: web servers, client/server software and protocols (HTTP, FTP, e-mail, streaming services)
- Distribution services for education
- CMS (Content Management Systems)
- L(c)MS (Learning course Management Systems)
- Educational Communication
- Web site development

Tutorials and seminar:

- solving of practical problems;
- seminar work.

Temeljni literatura in viri / Readings:

- Marjan Krašna, 2015, Izobraževanje v digitalnem svetu, Zora
- Helen BEETHAM in Rhona SHARPE, 2013: An Introduction to Rethinking Pedagogy. Rethinking Pedagogy for a Digital Age: Designing for 21st Century Learning. New York: Routledge, Taylor & Francis Group.
- Richard E. MAYER, 2009: Multimedia Learning. Cambridge: Cambridge University Press.

Cilji in kompetence:

- Znati uporabiti splet v izobraževanju
- Znati pripraviti spletne vsebine
- Znati uporabiti spletne programe in usluge

Objectives and competences:

- Understand the meaning of web services in education.
- Knowledge to prepare web pages.
- Knowledge to use web services.

Predvideni študijski rezultati:

- Znanje in razumevanje:
- Delovanje spleta in spletne programske opreme
 - Nastavitve in uporaba spletnih uslug
 - Izdelava spletnih strani

Intended learning outcomes:

- Knowledge and understanding:
- Web operations and web applications
 - Settings and usage of web services
 - Web site development

Prenesljive/ključne spretnosti in drugi atributi:
• Dobro obvladovanje spleta v izobraževanju

Transferable/Key Skills and other attributes:
• Good handling of educational web

Metode poučevanja in učenja:

• Predavanja, laboratorijske vaje, samostojno delo

Learning and teaching methods:

• lectures, laboratory work, individual work

Načini ocenjevanja:	Delež (v %) / Weight (in %)	Assessment:
Način (pisni izpit, ustno izpraševanje, naloge, projekt): • Pisni izpit • predstavitev seminarske naloge	50% 50%	Type (examination, oral, coursework, project): • Written exam • seminar work avocation

Reference nosilca / Lecturer's references:

KRAŠNA, Marjan, PESEK, Igor. Influence of Moodle and MS Teams on teaching-learning-studying (TLS) processes. V: SKALA, Karolj (ur.). MIPRO 2020 : 43nd International Convention, September 28 - October 2, 2020, Opatija, Croatia : mipro proceedings. Rijeka: Croatian Society for Information and Communication Technology, Electronics and Microelectronics - MIPRO, 2020. Str. 697-701, tabele. MIPRO ... (CD-ROM). ISSN 1847-3946. <https://ieeexplore.ieee.org/document/9245356/keywords>, DOI: 10.23919/MIPRO48935.2020.9245356. [COBISS.SI-ID 39114755], [Scopus]

REPNIK, Robert, BERNAD, Peter, KRAŠNA, Marjan. Teaching physics using programming of simulations. V: SKALA, Karolj (ur.). MIPRO 2020 : 43nd International Convention, September 28 - October 2, 2020, Opatija, Croatia : mipro proceedings. Rijeka: Croatian Society for Information and Communication Technology, Electronics and Microelectronics - MIPRO, 2020. Str. 641-648, ilustr. MIPRO ... (CD-ROM). ISSN 1847-3946. <https://ieeexplore.ieee.org/document/9245274>, DOI: 10.23919/MIPRO48935.2020.9245274. [COBISS.SI-ID 39106819], [Scopus]

MUSIL, Bojan, GARTNER, Smiljana, PESEK, Igor, KRAŠNA, Marjan. ICT competences assessment through ICT escape room. V: SKALA, Karolj (ur.). MIPRO 2019 : 42nd International Convention, May 20 -24, 2019, Opatija, Croatia : proceedings. Rijeka: Croatian Society for Information and Communication Technology, Electronics and Microelectronics - MIPRO, 2019. Str. 730-734, ilustr. MIPRO ... (CD-ROM). ISSN 1847-3946. [COBISS.SI-ID 24908296]