

UČNI NAČRT PREDMETA / COURSE SYLLABUS	
Predmet:	Spletno programiranje
Course title:	Web Programming

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Informatika v sodobni družbi, visokošolski strokovni in univerzitetni študijski program prve stopnje	-	Drugi	Četrти
Informatics in Contemporary Society, first cycle Professional Study Programme and Academic Study programme	-	Second	Fourth

Vrsta predmeta / Course type	Obvezni / Obligatory
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Univerzitetna koda predmeta / University course code:	1-ISD-VS,UN-SP-2016-10-01
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Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje work	Druge oblike študija	Samost. delo Individ. work	ECTS
30	-	-	-	45	105	6

Nosilec predmeta / Lecturer:	
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Jeziki / Languages:	Predavanja / Lectures:	Slovenski, angleški / Slovene, English
	Vaje / Tutorial:	Slovenski, angleški / Slovene, English

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti: Pogoj za vključitev v delo je vpis v 2. letnik študija. Pogoj za opravljanje študijskih obveznosti je izdelana seminarska naloga.	Prerequisites: The condition for attendance is enrolment in the 2 nd year of studies. The exam condition is a finished seminar paper.
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Vsebina: <ul style="list-style-type: none">• Sodobne spletne tehnologije. Osnove spletnega okolja.• Elementi spletne strani. Jezik HTML. Označe HTML. Formularji in dogodki.• Osnove slogovnih predlog CSS.• Jezik XML.• Osnove DTD. Validacija XML in XHTML.• Spletno programiranje pri klientu. Jezik JavaScript in objektni model DOM.	Content (Syllabus outline): <ul style="list-style-type: none">• Contemporary web technologies. Fundamentals of a web environment.• Web page elements. The HTML language. HTML tags. Forms and events.• Cascading style sheet (CSS) fundamentals.• The XML language.• DTD fundamentals. Validation of XML and XHTML.
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| <ul style="list-style-type: none"> • Spletno programiranje na strežniku. Jezik PHP. • Osnove relacijskih podatkovnih baz. • Poizvedovalni jezik SQL. Uporaba podatkovnih baz v spletnih aplikacijah. • Spletne ogrodja. Primer ogrodja (Django). | <ul style="list-style-type: none"> • Client based web. programming. JavaScript programming language and the DOM object model. • Server based web programming. The PHP language. • Relational database fundamentals. • The SQL query language. Use of databases in web applications. • Web frameworks. Web application development examples (Django). |
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Temeljni literatura in viri / Readings:

- Oliver, D., Morrison, M. (2006): HTML and CSS in 24 hours. Indianapolis: Sams.
- Young, M.J. (2002): XML: step by step, 2nd Edition. Redmond: Microsoft Press.
- Disbrow, S.W. (2001): JavaScript Weekend Crash Course. Hungry Minds.
- Goodman, D., Morrison, M. (2004): JavaScript Bible, 5th Edition. Indianapolis : Wiley Publishing.
- Hribar, P. (1998): Spoznajmo JavaScript: programiranje spletnih strani. Nova Gorica: Flamingo.
- Štrancar, M., Klemen, S. (2005): PHP in MySQL na spletnem strežniku Apache, druga izdaja. Založba Pasadena.
- Welling, L., Thomson, L. (2008): PHP and MySQL Web Development. Addison-Wesley Professional.

Cilji in kompetence:

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

- sposobnost povezovanja koherentno obvladanega temeljnega znanja, pridobljenega pri obveznih predmetih, ter njegova uporaba v praksi
- zmožnost zapisati problem v obliki algoritma in pretvorba algoritma v računalniški program z uporabo sodobnih programskih orodij
- razumevanje računalniških sistemov in arhitektur

Objectives and competences:

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

- the ability to interconnect and apply the coherently absorbed fundamental knowledge from the compulsory courses
- the ability to describe a problem in algorithm form and convert the algorithm into a computer programme using contemporary programming tools
- comprehension of computer systems and architectures

Predvideni študijski rezultati:

Znanje in razumevanje:

Študent/študentka:

- razvije logično razmišljanje in sposobnosti načrtovanja programov
- razume pomen načrtovanja in testiranja programske opreme
- zmore dekompozicijo večjega problema na več manjših in obvladljivih

Intended learning outcomes:

Knowledge and understanding:

Student:

- develops logical thinking and software design abilities
- understands the importance of design and testing of software
- is able to decompose a large problem into several smaller, controllable problems

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| <ul style="list-style-type: none"> • razume, kako deluje internet • operativno pozna programske jezike za spletno programiranje • spozna razmerja oblika-funkcija • je sposoben izdelati dinamično spletno stran | <ul style="list-style-type: none"> • understands the basic internet technologies • has operative knowledge of web programming languages • learns about the form-function relationship • is able to produce a dynamic web page |
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Metode poučevanja in učenja:

- predavanja z aktivno udeležbo študentov (razlaga, diskusija, vprašanja, primeri, reševanje problemov)
- vaje, kjer bodo študentje na konkretnih problemih ponovili, utrdili in dodatno osvetlili pojme in metode, spoznane na predavanjih
- seminarske naloge: z njimi bodo študentje stimulirani, da sami preizkusijo snov, ki bo obravnavana na predavanjih in vajah

Learning and teaching methods:

- lectures with active participation of students (explanations, questions, cases, problem solving)
- lab work: where students will use practical cases to refresh, reinforce and gain addition insight into the ideas and methods they've encountered at lectures
- seminar papers: will stimulate the students to apply and test the knowledge gained at lectures and lab work

Delež (v %) /

Weight (in %) **Assessment:**

Načini ocenjevanja:

- Način (pisni izpit, ustno izpraševanje, naloge, projekt):
- pisni/ustni izpit
 - domače naloge
 - seminarska naloga

Študent lahko pristopi k pisnemu izpitu po opravljenih domačih nalogah in seminarski nalogi, pri katerih mora doseči vsaj 50% uspešnost.

50
30
20

Type (examination, oral, coursework, project):

- written/oral exam
- homeworks
- seminar paper

Student can take part in the written exam, after he/she completes his/her homeworks and the seminar paper with at least 50% success.