

**Univerzitet „UKSHIN HOTI“ PRIZREN**  
**Fakultet kompjuterskih nauka**

**NASTAVNI PLAN-PROGRAM – SYLLABUS**

<i>Nivo studija</i>	BACHELOR	<i>Departament</i>	TIT BOS	<i>Akadska god.</i>	2017/2018	
<i>PREDMET</i>	CLOUD COMPUTING					
<i>Godina</i>	III	<i>Status predmeta</i>	OBAVEZNI	<i>Kod</i>	<i>ECTS kred.</i>	6
<i>Semestar</i>	V					
<i>Nastavne nedjelje</i>	15		<i>Nastavni časovi</i>		Predavanja	Vježbe
					2	2
<i>Metodologija nastave</i>	Predavanja, vježbe, seminarski radovi, konsultacije, testovi, e-learning, zadaci					
<i>Konsultacije</i>	Jedan sat prije i jedan sat posle predavanja					
<i>Predavač</i>	Prof. Asoc. dr Muzafer Saračević		e-mail	muzafer.saracevic@uninp.edu.rs		
			tel.	+381648891544		
<i>Asistent</i>	Msc. Haris Bibuljica		e-mail			
			tel.			

<b>Cilj studija i sadržaj predmeta</b>	<b>Dobit studenta</b>
Na ovom predmetu studenti stiču neophodna znanja iz osnova iz arhitekture i funkcionalnosti Cloud Computing-a. Pored toga, stiču se znanja iz osnovnih tipova servisa u Cloud Computing-u, tehnologija za realizaciju Cloud Computing-a i poznavanja hardvera i softvera za realizaciju Cloud Computing-a.	Studenti će biti osposobljeni da samostalno upravljaju korisničkim nalogima u Cloud Computing infrastrukturi, da primjenjuju Cloud Computing u poslovnom okruženju. Upoznaće najbolje Cloud servise za skladištenje i uočiti prednosti korišćenja Cloud Computing-a.

<b>Metodologija za realizaciju nastavnih tema:</b>			
<ul style="list-style-type: none"> <li>• Studentski slučaj ili zadatak (tokom vježbi) povezano sa predavanom temom</li> <li>• Obnavljanje predviđene teme od određene grupe studenata, analiza i diskusija</li> <li>• Prezentacije, forumi, konceptualne mape, wiki, google dokumenti, interaktivni poster</li> </ul>			
<b>Uslovi za realizaciju nastavne teme:</b>			
<ul style="list-style-type: none"> <li>• Sala opremljena sa kompjuterom i projektorom</li> </ul>			
<b>Način vrednovanja studenta ( u %) :</b>			
<ul style="list-style-type: none"> <li>• Redovnost na predavanjima 0-5%</li> <li>• Aktivnost 0-5%</li> <li>• Seminarski rad 0-10%</li> <li>• Test I 0-10 %</li> <li>• Test II 0-10%</li> <li>• Završni ispit 0- 50%</li> <li>• Učestvovanje u vježbama 0 - 5%</li> <li>• Grupni rad na zadacima i slučajevima studija 0- 5%</li> </ul>	<b>Vrednovanje u %</b>		<b>Konačna ocjena</b>
	91-100		10 (deset)
	81-90		9 (devet)
	71-80		8 (osam)
	61-70		7 (sedam)
	51-60		6 (šest)
	0-50		5 (pet)
<b>Obaveza studenta:</b>			
<b>Predavanja</b>		<b>Vježbe</b>	
<ul style="list-style-type: none"> <li>• Redovnost na predavanjima</li> <li>• Aktivno učestvovanje u diskusijama tokom predavanja</li> <li>• Seminarski rad</li> <li>• Učestvovanje na testu</li> <li>• Završni ispit</li> </ul>		<ul style="list-style-type: none"> <li>• Aktivno učestvovanje na vježbama</li> <li>• Grupni rad u slučajevima studija i zadacima</li> <li>• Učestvovanje u diskusijama na temu slučajeva studija</li> </ul>	
<b>Dužnosti studenta za predmet</b>			
<b>Aktivnost</b>	<b>Časovi</b>	<b>Dana/Nedjelja</b>	<b>Ukupno</b>
Predavanja	2	15	30
Vježbe	2	15	30

Praktičan rad	2	05	10
Kontakti sa predavačima/konsultacije	1	15	15
Vježbe na terenu	-	-	-
Kolokviumi, seminari	2	10	20
Domaći zadaci	-	-	-
Samostalni rad	2	15	30
Završne pripreme za ispit	2	15	30
Protekli period , uspjeh (testovi, kviz, finalni ispit, itd.)	1	05	05
Projekti, prezentacije, itd.	5	2	10
<b>Napomena:</b> 1 ECTS kred. = 30 čas. angažovanja, npr. ako predm. ima 6 ECTS kred. student treba biti angažovan tokom semestra 180 čas.		<b>Total:</b>	<b>180</b>

Nedja:	Predavanja		Vježbe	
	Tema	Čas		Čas.
1.	<b>Tema: Termin i istorijat Cloud Computing-a</b>	2	Vezbe – Uvod u Cloud Computing tehnologije	2
	Literatura: Marinescu, D. C. (2012) Cloud Computing: Theory and Practice, Orlando: Department of Electrical Engineering & Computer Science, University of Central Florida, Orlando, USA.		Literatura: Hai Jin, Shadi Ibrahim, Tim Bell, Wei Gao, Dachuan Huang, Song Wu (2010) Cloud Types and Services, Handbook of Cloud Computing, Springer.	
2.	<b>Tema: Arhitektura i funkcionalnost Cloud Computing-a</b>	2	Vezbe – Arhitektura i funkcionalnost Cloud Computing-a	2
	Literatura: Marinescu, D. C. (2012) Cloud Computing: Theory and Practice, Orlando: Department of Electrical Engineering & Computer Science, University of Central Florida, Orlando, USA.		Literatura: Hai Jin, Shadi Ibrahim, Tim Bell, Wei Gao, Dachuan Huang, Song Wu (2010) Cloud Types and Services, Handbook of Cloud Computing, Springer.	
3.	<b>Tema: Tipovi servisa u Cloud Computing-u</b>	2	Vezbanje – Arhitektura i funkcionalnost Cloud Computing-a	2
	Literatura: Marinescu, D. C. (2012) Cloud Computing: Theory and Practice, Orlando: Department of Electrical Engineering & Computer Science, University of Central Florida, Orlando, USA.		Literatura: Hai Jin, Shadi Ibrahim, Tim Bell, Wei Gao, Dachuan Huang, Song Wu (2010) Cloud Types and Services, Handbook of Cloud Computing, Springer.	
4.	<b>Tema: Tehnologije za realizaciju Cloud Computing-a</b>	2	Vezbe - Tipovi servisa u Cloud Computing-u	2
	Literatura: Marinescu, D. C. (2012) Cloud Computing: Theory and Practice, Orlando: Department of Electrical Engineering & Computer Science, University of Central Florida, Orlando, USA.		Literatura: Hai Jin, Shadi Ibrahim, Tim Bell, Wei Gao, Dachuan Huang, Song Wu (2010) Cloud Types and Services, Handbook of Cloud Computing, Springer.	
5.	<b>Tema: Hardver i softver za realizaciju Cloud Computing-a</b>	2	Vezbe - Tipovi servisa u Cloud Computing-u	2
	Literatura: Marinescu, D. C. (2012) Cloud Computing: Theory and Practice, Orlando: Department of Electrical Engineering & Computer Science, University of Central Florida, Orlando, USA.		Literatura: Hai Jin, Shadi Ibrahim, Tim Bell, Wei Gao, Dachuan Huang, Song Wu (2010) Cloud Types and Services, Handbook of Cloud Computing, Springer.	
6.	<b>Tema: Upravljanje korisničkim nalozima u Cloud Computing infrastrukturi</b>	2	Vezbanje - Tipovi servisa u Cloud Computing-u	2
	Literatura: Marinescu, D. C. (2012) Cloud Computing: Theory and Practice, Orlando: Department of Electrical Engineering & Computer Science, University of Central Florida, Orlando, USA.		Literatura: Hai Jin, Shadi Ibrahim, Tim Bell, Wei Gao, Dachuan Huang, Song Wu (2010) Cloud Types and Services, Handbook of Cloud Computing, Springer.	
7.	<b>Tema: Cloud Computing u poslovnom okruženju</b>	2	Vezbanje - Tipovi servisa u Cloud Computing-u	2
	Literatura: Marinescu, D. C. (2012) Cloud Computing: Theory and Practice, Orlando: Department of Electrical Engineering & Computer Science, University of Central Florida, Orlando, USA.		Literatura: Hai Jin, Shadi Ibrahim, Tim Bell, Wei Gao, Dachuan Huang, Song Wu (2010) Cloud Types and Services, Handbook of Cloud Computing, Springer.	
8.	<b>Tema: Najbolji Cloud servisi za skladištenje</b>	2	Vezbanje - Najbolji Cloud servisi za skladištenje	2
	Literatura: Marinescu, D. C. (2012) Cloud Computing: Theory and Practice, Orlando: Department of Electrical Engineering & Computer Science, University of Central Florida, Orlando, USA.		Literatura: Dropbox, Google Drive, SkyDrive and Others: Pricing Per GB and More Compared in Convenient Charts. Dostupno na: <a href="http://lifelife.com/5905702/dropbox-google-drive-skydrive-and-otherspricing-per-gb-and-more-compared-in-convenient-charts">http://lifelife.com/5905702/dropbox-google-drive-skydrive-and-otherspricing-per-gb-and-more-compared-in-convenient-charts</a>	
9.	<b>Tema: Prednosti Cloud Computing-a</b>	2	Vezbanje - Najbolji Cloud servisi za skladištenje	2
	Literatura: Marinescu, D. C. (2012) Cloud Computing: Theory and Practice, Orlando: Department of Electrical Engineering & Computer Science, University of Central Florida, Orlando, USA.		Literatura: Dropbox, Google Drive, SkyDrive and Others: Pricing Per GB and More Compared in Convenient Charts. Dostupno na: <a href="http://lifelife.com/5905702/dropbox-google-drive-skydrive-and-otherspricing-per-gb-and-more-compared-in-convenient-charts">http://lifelife.com/5905702/dropbox-google-drive-skydrive-and-otherspricing-per-gb-and-more-compared-in-convenient-charts</a>	

			compared-in-convenient-charts	
10.	<b>Tema: Bezbednost u Cloud Computing-u</b> Literatura: Marinescu, D. C. (2012) Cloud Computing: Theory and Practice, Orlando: Department of Electrical Engineering & Computer Science, University of Central Florida, Orlando, USA.	2	<b>Vežbanje - Najbolji Cloud servisi za skladištenje</b> Literatura: Dropbox, Google Drive, SkyDrive and Others: Pricing Per GB and More Compared in Convenient Charts. Dostupno na: <a href="http://lifehacker.com/5905702/dropbox-google-drive-skydrive-and-otherspricing-per-gb-and-more-compared-in-convenient-charts">http://lifehacker.com/5905702/dropbox-google-drive-skydrive-and-otherspricing-per-gb-and-more-compared-in-convenient-charts</a>	2
11.	<b>Tema: Primena Cloud Computing-a (implementacija, održavanje)</b> Literatura: Marinescu, D. C. (2012) Cloud Computing: Theory and Practice, Orlando: Department of Electrical Engineering & Computer Science, University of Central Florida, Orlando, USA.	2	<b>Vežbanje - Primena Cloud Computing-a (implementacija, održavanje)</b> Literatura: Hai Jin, Shadi Ibrahim, Tim Bell, Wei Gao, Dachuan Huang, Song Wu (2010) Cloud Types and Services, Handbook of Cloud Computing, Springer.	2
12.	<b>Tema: Primena Cloud Computing-a (Zastita poverljivih podataka)</b> Literatura: Marinescu, D. C. (2012) Cloud Computing: Theory and Practice, Orlando: Department of Electrical Engineering & Computer Science, University of Central Florida, Orlando, USA.	2	<b>Vežbanje - Primena Cloud Computing-a (Zastita poverljivih podataka)</b> Literatura: Hai Jin, Shadi Ibrahim, Tim Bell, Wei Gao, Dachuan Huang, Song Wu (2010) Cloud Types and Services, Handbook of Cloud Computing, Springer.	2
13.	<b>Tema: Primena Cloud Computing-a (bezbednost aplikacija i okruženja)</b> Literatura: Marinescu, D. C. (2012) Cloud Computing: Theory and Practice, Orlando: Department of Electrical Engineering & Computer Science, University of Central Florida, Orlando, USA.	2	<b>Vežbanje - Primena Cloud Computing-a (Zastita poverljivih podataka)</b> Literatura: Hai Jin, Shadi Ibrahim, Tim Bell, Wei Gao, Dachuan Huang, Song Wu (2010) Cloud Types and Services, Handbook of Cloud Computing, Springer.	2
14.	<b>Tema: Primena Cloud Computing-a (testiranje i validacija okruženja)</b> Literatura: Marinescu, D. C. (2012) Cloud Computing: Theory and Practice, Orlando: Department of Electrical Engineering & Computer Science, University of Central Florida, Orlando, USA.	2	<b>Vežbanje - Primena Cloud Computing-a (bezbednost aplikacija i okruženja)</b> Literatura: Hai Jin, Shadi Ibrahim, Tim Bell, Wei Gao, Dachuan Huang, Song Wu (2010) Cloud Types and Services, Handbook of Cloud Computing, Springer.	2
15.	<b>Tema: Primena Cloud Computing-a (testiranje i validacija okruženja)</b> Literatura: Marinescu, D. C. (2012) Cloud Computing: Theory and Practice, Orlando: Department of Electrical Engineering & Computer Science, University of Central Florida, Orlando, USA.	2	<b>Vežbanje - Primena Cloud Computing-a (testiranje i validacija okruženja)</b> Literatura: Hai Jin, Shadi Ibrahim, Tim Bell, Wei Gao, Dachuan Huang, Song Wu (2010) Cloud Types and Services, Handbook of Cloud Computing, Springer.	2

#### LITERATURA:

##### Osnovna literatura :

- Marinescu, D. C. (2012) Cloud Computing: Theory and Practice, Orlando: Department of Electrical Engineering & Computer Science, University of Central Florida, Orlando, USA.
- Hai Jin, Shadi Ibrahim, Tim Bell, Wei Gao, Dachuan Huang, Song Wu (2010) Cloud Types and Services, Handbook of Cloud Computing, Springer.

##### Dodatna literatura :

- Srinivasa Rao V, Nageswara Rao N K, E Kusuma Kumari (2009) Cloud Computing: An overview, Journal of Theoretical and applied Information Technology, Vol. 9. No.1, November 2009.
- Bo Dong, Qinghua Zheng, Jie Yang, Haifei Li, Mu Qiao (2009) An E-learning Ecosystem Based on Cloud Computing Infrastructure, Proceedings of the 2009 Ninth IEEE International Conference on Advanced Learning Technologies, IEEE Computer Society, pp: 125-127,2009
- Dropbox, Google Drive, SkyDrive and Others: Pricing Per GB and More Compared in Convenient Charts. Dostupno na: <http://lifehacker.com/5905702/dropbox-google-drive-skydrive-and-otherspricing-per-gb-and-more-compared-in-convenient-charts>

#### NAPOMENA:

- *Za svaku nastavnu temu, studentima mora biti dostupan materijal na bosanskom jeziku.*
- *Na kraju svakog nastavnog časa određene grupe studenata će se angažovati na studijskom slučaju ili zadatku na osnovu predavane teme .*
- *Postignute rezultate sa datog zadatka, studentske grupe trebaju prezentovati i prodiskutovati na časovima vježbi.*

#### Napomena za studente:

- Student treba biti odgovoran i poštovati instituciju i pravila školovanja.
- Treba poštovati raspored predavanja , vježbi i biti pažljiv na nastavnom času.
- Obavjezan je posjedovati i prikazati indeks na testovima i ispitu .
- Tokom izrade seminarskog rada , student se treba pridržavati datih uputstava od predavača o realizaciji istraživanja i tehničkoj izradi.