UČNI NAČRT PREDMETA / COURSE SYLLABUS	
Predmet:	Modeli procesov v organizaciji z UML
Course title:	Process Modeling within Organisation Using UML

Študijski program in stopnja **Study programme and level**	**Študijska smer** **Study field**	**Letnik** **Academic year**	**Semester** **Semester**
Informatika v sodobni družbi, visokošolski strokovni študijski program prve stopnje	-	Drugi ali tretji	Četrti ali šesti
Informatics in Contemporary Society, first cycle Professional Study Programme	-	Second or third	Fourth or sixth

Vrsta predmeta / Course type	Izbirni / Elective
Univerzitetna koda predmeta / University course code:	1-ISD-VS-IP-MPOUML-2019-05-13

Predavanja **Lectures**	**Seminar** **Seminar**	**Vaje** **Tutorial**	**Klinične vaje** **work**	**Druge oblike študija**	**Samost. delo** **Individ. work**	**ECTS**
30	-	45	-	-	105	6

Nosilec predmeta / Lecturer:	red. prof. dr. Nadja Damij

Jeziki / Languages:	**Predavanja / Lectures:**	Slovenski, angleški / Slovene, English
	Vaje / Tutorial:	Slovenski, angleški / Slovene, English

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:	**Prerequisits:**
Študent/študentka mora pred pristopom k izpitu pripraviti in zagovarjati seminarsko nalogo.	Prior to the exam, the student has to prepare and present seminar work.

Vsebina:

- Poslovni procesi.
- Razvoj UML (Enotni jezik za modeliranje).
- Diagram primerov uporabe.
- Interakcijski diagrami
  - Zaporedni diagram
  - Diagram sodelovanja.
- Ostali diagrami.

Content (Syllabus outline):

- Business processes
- Development of UML (Uniform modeling language)
- The use case diagram
- The Interaction Diagrams
  - Successive the diagram
  - Diagram of cooperation.
- Other diagrams.

Temeljni literatura in viri / Readings:

- Holt Jon, *Business Process Modelling*, BCD (British Computer Society), Swindon, UK, 2006.
- Rumbaugh J., Jacobson I. And Booch G. (1998), *The Unified Modeling Language Reference Manual*. Addison-Wesley, Massachusetts.

Cilji in kompetence:

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

- sposobnost fleksibilne in aplikativne uporabe teoretičnega znanja
- usposobljenost za samostojno in avtonomno uporabo, nadzor in vzdrževanje informacijsko komunikacijske tehnologije v organizaciji
- sposobnost interdiciplinarnega pristopa, ki se kaže kot razumevanje splošne strukture družbenih ved ter povezanosti med njenimi posameznimi disciplinami in poddisciplinami
- organizacijske in vodstvene spretnosti ter uporaba v organizacijah, ob razumevanju individualnih vrednot in skupinskih vrednotnih sistemov za obvladovanje profesionalno-etičnih vprašanj

Objectives and competences:

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

- ability to flexibly apply knowledge in practice
- competence for independent and autonomous use, monitoring and maintenance of information communication technology in an institution
- ability for an interdisciplinary approach, shown as an understanding of general structure of social sciences and interconnections between its individual scientific disciplines and sub disciplines
- organisational and leadership skills at institutions, while understanding individual values and group value systems for the management of professional – ethical questions

Predvideni študijski rezultati:

Znanje in razumevanje:

Študent/študentka:

- se seznani z najbolj sodobnim jezikom za modeliranje, ki ga uporabljajo skoraj pri vsakem podjetju tako po Sloveniji kot po svetu

Intended learning outcomes:

Knowledge and understanding:

The student will:

- learn about the subject with the most modern modeling language used by almost every company both in Slovenia and abroad

Metode poučevanja in učenja:

- *predavanja* z aktivno udeležbo študentov (razlaga, diskusija, vprašanja, primeri, reševanje problemov)
- *vaje in laboratorijske vaje*
- individualne in skupinske *konzultacije* (diskusija, dodatna razlaga, obravnava specifičnih vprašanj)

Learning and teaching methods:

- *Lectures* with active students' involvement (explanation, discussion, questions, examples, problem solving)
- Tutorials and laboratory tutorials

	• Individual and group *consultations* (discussion, additional explanation, dealing with specific questions)

Načini ocenjevanja:	Delež (v %) / Weight (in %)	**Assessment:**
Način (pisni izpit, ustno izpraševanje, naloge, projekt): • pisni izpit • seminarska naloga s poročili seminarskega dela in eksperimentalnih vaj ter predstavitev naloge	 50 50	Type (examination, oral, coursework, project): • written exam • seminar paper with reports of seminar work and laboratory work. presentation of seminar paper

Reference nosilca / Lecturer's references:

- DAMIJ, Nadja, DAMIJ, Talib. Process management : a multi-disciplinary guide to theory, modeling, and methodology, (Progress in IS). Berlin; Heidelberg: Springer, cop. 2014. XVI, 213 str., ilustr. ISBN 978-3-642-36638-3, doi: 10.1007/978-3-642-36639-0.
- DAMIJ, Nadja. Management poslovnih procesov : modeliranje, simuliranje, inovacija in izboljšanje. Ljubljana: Vega, 2009. 182 str., ilustr. ISBN 978-961-92649-5-9.
- MILEVA-BOSHKOSKA, Biljana, DAMIJ, Talib, JELENC, Franc, DAMIJ, Nadja. Abdominal surgery process modeling framework for simulation using spreadsheets. Computer methods and programs in biomedicine, ISSN 0169-2607. [Print ed.], 2015, vol. 21, iss. 1, str. 1-13, doi: 10.1016/j.cmpb.2015.05.001.
- AGREŽ, Jernej, DAMIJ, Nadja. Knowledge dynamics assessment in complex organizational systems : a missing person investigation case study. Central European Journal of Operations Research, ISSN 1435-246X, 2015, vol. 23, iss. 3, str. 527-545, doi: 10.1007/s10100-014-0368-1.
- DAMIJ, Nadja, LEVNAJIĆ, Zoran, REJEC SKRT, Vesna, SUKLAN, Jana. What motivates us for work?, Intricate web of factors beyond money and prestige. PloS one, ISSN 1932-6203, 2015, vol. 10, no. 7, str. e0132641-1-e0132641-13, doi: 10.1371/journal.pone.0132641.
- DAMIJ, Nadja, DAMIJ, Talib, JELENC, Franc. Healthcare process analysis and improvement at the department of abdominal surgery, University medical centre Ljubljana = Analiza in izboljšanje zdravstvenega procesa v oddelku za abdominalno kirurgijo Univerzitetnega kliničnega centra Ljubljana. Zdravniški vestnik, ISSN 1318-0347. [Tiskana izd.], jan. 2015, letn. 84, št. 1, str. 26-37, ilustr.
- TASEVSKA, Frosina, DAMIJ, Talib, DAMIJ, Nadja. Project planning practices based on enterprise resource planning systems in small and medium enterprises - a case study from the Republic of Macedonia. International journal of project management, ISSN 0263-7863. [Print ed.], 2014, vol. 32, iss. 3, str. 529-538, doi: 10.1016/j.ijproman.2013.08.001.
- DAMIJ, Nadja, DAMIJ, Talib, GRAD, Janez, JELENC, Franc. A methodology for business process improvement and IS development. Information and software technology, ISSN 0950-5849. [Print ed.], 2008, vol. 50, str. 1127-1141, doi: 10.1016/j.infsof.2007.11.004.
- ARSHAM, Hossein, CIMPERMAN, Gašper, DAMIJ, Nadja, DAMIJ, Talib, GRAD, Janez. A computer implementation of the Push-and-Pull algorithm and its computational comparison with LP simplex method. Applied mathematics and computation, ISSN 0096-3003. [Print ed.], Nov. 2005, vol. 170, iss. 1, str. 36-63.