

## UČNI NAČRT PREDMETA / COURSE SYLLABUS

<b>Predmet:</b>	Seminar I
<b>Course title:</b>	Seminar I

Študijski program in stopnja Study programme and level	Modul Module	Letnik Academic year	Semester Semester
Informacijske in komunikacijske tehnologije, 2. stopnja	vsi	1	2
Information and Communication Technologies, 2 <sup>nd</sup> cycle	all	1	2

**Vrsta predmeta / Course type** Obvezni / Mandatory

**Univerzitetna koda predmeta / University course code:** IKT2-711

Predavanja Lectures	Seminar Seminar	Sem. vaje Tutorial	Lab. vaje Laboratory work	Drugo Other	Samost. delo Individ. work	ECTS
	30			30	240	10

*\*Navedena porazdelitev ur velja, če je vpisanih vsaj 15 študentov. Drugače se obseg izvedbe kontaktnih ur sorazmerno zmanjša in prenese v samostojno delo. / This distribution of hours is valid if at least 15 students are enrolled. Otherwise the contact hours are linearly reduced and transferred to individual work.*

**Nosilec predmeta / Lecturer:** Prof. dr. Marko Debeljak

**Jeziki / Languages:** **Predavanja / Lectures:** slovenščina, angleščina / Slovenian, English  
**Vaje / Tutorial:**

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

Zaključen študijski program prve stopnje s področja naravoslovja, tehnike ali računalništva.

**Prerequisites:**

Student must complete first-cycle study programmes in natural sciences, technical disciplines or computer science.

**Vsebina:**

Študenti bodo razvili sposobnosti spremljanja ter prepoznavanja aktualnih strokovno raziskovalnih problemov, sodobnih metod raziskovanja, najnovejših rezultatov in uporabe najnovejšega znanja na področju informacijskih in komunikacijskih tehnologij. Študenti se bodo soočili tudi z izzivom izdelave pisnega pregleda obravnavanih vsebin ter s posredovanjem ugotovitev v obliki ustne predstavitve seminarja.

**Content (Syllabus outline):**

Students will develop the ability to follow and identify current professional research problems, modern methods of research, the latest results and the use of the state-of-the-art knowledge in the field of information and communication technologies. Students will also face the challenge of writing a written review of the selected topics and by sharing their findings through oral seminar presentation.

**Temeljni literatura in viri / Readings:**

Strokovna in znanstvena literatura s področja informacijskih in komunikacijskih tehnologij ter pisnega in ustnega komuniciranja s strokovno javnostjo. / Professional and scientific literature in the field of

information and communication technologies and written and oral communication with the professional public.

#### **Cilji in kompetence:**

Cilj predmeta je spoznavanje aktualnih strokovnih problemov, sodobnih metodoloških pristopov k njihovi razrešitvi in najnovejših dosežkov na področju informacijskih in komunikacijskih tehnologij. Pomemben cilj je tudi sposobnost pisnega celostnega povzemanja obravnavanih vsebin in posredovanja ugotovitev v obliki ustne komunikacije.

#### **Objectives and competences:**

The aim of the course is to learn about current professional problems, modern methodological approaches to their solutions and the latest achievements in the field of information and communication technologies. An important goal is also the students' ability to write a comprehensive review of the selected study subject and to share their findings through oral communication.

#### **Predvideni študijski rezultati:**

Znanje in razumevanje:  
Priprava pisnega poročila ter suverena ustna komunikacija obravnavanih vsebin.

Študenti bodo izpopolnili sposobnosti spremljanja sodobnih raziskav in dosežkov na področju informacijskih in komunikacijskih tehnologij, kritične ocene pomembnosti objav v znanstveni literaturi, pisnega povzemanja obravnavane vsebine ter njene suverene predstavitve in ustnega komuniciranja.

#### **Intended learning outcomes:**

Knowledge and understanding:  
Preparation of a written report and oral communication of the selected topic.

Students will gain the capacity of following research activities and results in the area of Information and Communication Technologies. They will get skills to evaluate published works in scientific literature, to write review papers and to make a public presentation of their seminar work.

#### **Metode poučevanja in učenja:**

Seminar, konzultacije, druge metode

#### **Learning and teaching methods:**

Seminar, consultations, other methods

<b>Načini ocenjevanja:</b>	Delež (v %) / Weight (in %)	<b>Assessment:</b>
Pisna seminarska naloga	70 %	Written seminar work
Ustna predstavitve z zagovorom seminarske naloge	30 %	Oral presentation with the defense of the seminar work

#### **Reference nosilca / Lecturer's references:**

- **M. Debeljak**, A. Ficko, and R. Brus, 2016 The use of habitat and dispersal models in protecting European black poplar (*Populus nigra* L.) from genetic introgression in Slovenia. *Biological Conservation*, ISSN 0006-3207. [Print ed.], vol. 184, str. 310-319, 2015.
- A. Trajanov, V. Kuzmanovski, F. Leprince,, B. Real, A. Dutertre, J. Maillet-Mezeray, S. Džeroski, **M. Debeljak**, 2015. Estimating drainage periods for agricultural fields from measured data: Data mining methodology and a case study (La Jaillièrè – France). *Irrig. Drain*, 64, 703-516.V. Kuzmanovski, A. Trajanov, F. Leprince, S. Džeroski, and **M. Debeljak**, Modeling water outflow from tile-drained agricultural fields. *Science of the total environment*, vol. 505, str. 390-401.
- T. Jaklič, L. Juvančič, S. Kavčič, and **M. Debeljak**, Complementarity of socio-economic and emergy evaluation of agricultural production systems: the case of Slovenian dairy sector. *Ecological economics*, vol. 107, str. 469-481, 2014.
- **M. Debeljak**, A. Poljanec, and B. Ženko, Modelling forest growing stock from inventory data: a data mining approach. *Ecological indicators*, vol. 41, str. 30-39, 2014.

- J. Levatić, D. Kocev, **M. Debeljak**, and S. Džeroski, Community structure models are improved by exploiting taxonomic rank with predictive clustering trees. *Ecological modelling*, 11 str., 2014.