

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Seminar I
Course title:	Seminar I

Študijski program in stopnja Study programme and level	Modul Module	Letnik Academic year	Semester Semester
Informacijske in komunikacijske tehnologije, 3. stopnja	vsi	1	2
Information and Communication Technologies, 3 rd cycle	all	1	2

Vrsta predmeta / Course type

Obvezni / Mandatory

Univerzitetna koda predmeta / University course code:

IKT3-719

Predavanja Lectures	Seminar Seminar	Sem. vaje Tutorial	Lab. vaje Laboratory work	Drugo Others	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 /

Predavanja / Lectures: Slovenščina, angleščina / Slovenian, English

Languages:

Vaje / Tutorial:

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

Zaključen študij druge stopnje s področja informacijskih ali komunikacijskih tehnologij ali zaključen študij druge stopnje na drugih področjih z znanjem osnov s področja predmeta. Potrebna so tudi osnovna znanja matematike, računalništva in informatike.

Prerequisites:

Completed second cycle studies in information or communication technologies or completed second cycle studies in other fields with knowledge of fundamentals in the field of this course. Basic knowledge of mathematics, computer science and informatics is also requested.

Vsebina:

Študenti bodo razvili sposobnosti spremljanja ter prepoznavanja aktualnih znanstveno 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 scientific 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:

Znanstvena literatura s področja seminarja ter literatura s področja pisnega in ustnega komuniciranja s strokovno javnostjo. / Scientific literature from the field of the seminar and literature on written and oral communication with the professional public.

Cilji in kompetence:

Cilj predmeta je spoznavanje aktualnih strokovnih in znanstvenih problemov, sodobnih metodološki pristopov k njihovi razrešitvi in najnovejših rezultatov ter novih znanstvenih metodoloških izzivov na področju informacijskih in komunikacijskih tehnologij. Pomemben cilj je tudi sposobnost pisnega celostnega povzemanja obravnavanih znanstvenih vsebin in posredovanje ugotovitev v obliki ustne predstavitve in uporabe znanstvenih argumentov v kritični ustni komunikaciji z znanstveno javnostjo.

Objectives and competences:

The aim of the course is to learn about current research 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 ability to write a comprehensive review of the selected scientific subject and to share their findings in the form of oral presentations. In addition, they will practice the use of scientific arguments in critical oral communication with the scientific community.

Predvideni študijski rezultati:

Priprava pisnega poročila, njegova predstavitev ter suverena ustna komunikacija o obravnavanih vsebinah.
Študenti bodo izpopolnili sposobnosti kritičnega spremljanja ter poznavanja sodobnih znanstvenih raziskav in dosežkov na izbranem področju informacijskih in komunikacijskih tehnologij, kritične ocene pomembnosti objav v znanstveni literaturi, pisnega povzemanja obravnavane vsebine ter njene suverene predstavitve in ustnega komuniciranja z znanstveno javnostjo.

Intended learning outcomes:

Expected results are a written report, its presentation and convincing oral communication on the topics discussed.
Students will improve their ability to critically review the state-of-the-art of modern scientific research and achievements in the selected field of information and communication technologies. They will be able to perform a critical evaluation and relevance of the publications in scientific literature that will be given in the written report. In addition, they will improve their skills in presentation and oral communication with the scientific community.

Metode poučevanja in učenja:

Predavanja, seminar, konzultacije, druge metode

Learning and teaching methods:

Lectures, seminar, consultations, other methods

Načini ocenjevanja:

Pisna seminarska naloga
Ustna predstavitev z zagovorom
seminarske naloge

Delež (v %) /

Weight (in %)

Assessment:

Written seminar work
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. Mailet-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 energy 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.