UČNI NAČRT PREDMETA / COURSE SYLLABUS	
Predmet:	Seminar I
Course title:	Seminar I

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Senzorske tehnologije, 3. stopnja	/	1	2
Sensor Technologies, 3rd cycle	/	1	2

Vrsta predmeta / Course type	Obvezni / Mandatory
Univerzitetna koda predmeta / University course code:	ST3-729

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje work	Druge oblike študija	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 transfered to individual work.*

Nosilec predmeta / Lecturer:	Prof. dr. Marina Dermastia Prof. dr. Barbara Malič Prof. dr. Aleksander Zidanšek

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

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:	**Prerequisits:**
Zaključen študij druge stopnje.	Completed second-cycle studies.

Vsebina:	**Content (Syllabus outline):**
Študenti bodo razvili sposobnosti spremljanja ter prepoznavanja aktualnih znanstveno raziskovalnih problemov, sodobnih metod raziskovanja, najnovejših rezultatov in uporabe najnovejšega znanja na področju senzorskih tehnologij. Študenti se bodo soočili tudi z izzivi izdelave pisnega pregleda obravnavanih vsebin ter s posredovanjem ugotovitev v obliki ustne predstavitve seminarja.	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 sensor technologies. Students will also face with the challenges of writing a written review of the selected topics and by sharing of their findings with 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:	**Objectives and competences:**
Cilj predmeta je spoznavanje aktualnih raziskovalnih problemov, sodobnih metodoloških pristopov k njihovi razrešitvi in najnovejših dosežkov na področju senzorskih tehnologij. Pomemben cilj je tudi sposobnost pisnega celostnega povzemanja obravnavanih vsebin in posredovanje ugotovitev v obliki ustne predstavitve in uporabe znanstvenih argumentov v kritični ustni komunikaciji z znanstveno javnostjo.	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 sensor technologies. An important goal is also the ability to write comprehensive review of the selected study 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:	**Intended learning outcomes:**
Priprava pisnega poročila, njegova predstavitev ter suverena ustna komunikacija o obravnavanih vsebinah. Študenti bodo izpopolnili sposobnosti spremljanja ter poznavanja sodobnih raziskav in dosežkov na področju senzorskih tehnologij, kritične ocene pomembnosti objav v znanstveni literaturi, pisnega povzemanja obravnavane vsebine ter njene suverene predstavitve in ustnega komuniciranja z znanstveno javnostjo.	Preparation of written reports and oral presentations based on their own research work. Students are expected to gain a general understanding of the research activities in sensor technologies. They will get skills to evaluative published works in scientific literature, to write professional and scientific papers and to make a public presentation of their review seminar work with the scientific community.

Metode poučevanja in učenja:	**Learning and teaching methods:**
Seminar, konzultacije, druge metode	Seminar, consultations, other methods

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

Reference nosilca / Lecturer's references:

- ROTTER, Ana, NIKOLIĆ, Petra, TURNŠEK, Neža, KOGOVŠEK, Polona, BLEJEC, Andrej, GRUDEN, Kristina, DERMASTIA, Marina. Statistical modeling of long-term grapevine response to "*Candidatus* Phytoplasma solani" infection in the field. European Journal of Plant Pathology, 2018, 150: 653.
- CHERSICOLA, Marko, KLADNIK, Aleš, TUŠEK-ŽNIDARIČ, Magda, MRAK, Tanja, GRUDEN, Kristina, DERMASTIA, Marina. 1-aminocyclopropane-1-carboxylate oxidase induction in tomato flower pedicel phloem and abscission related processes are differentially sensitive to ethylene. Frontiers in Plant Science, 2017, vol. 8, str. 1-14.
- PREZELJ, Nina, COVINGTON, Elizabeth, ROITSCH, Thomas, GRUDEN, Kristina, FRAGNER, Lena, WECKWERTH, Wolfram, CHERSICOLA, Marko, VODOPIVEC, Maja, DERMASTIA, Marina. Metabolic consequences of infection of grapevine (*Vitis* vinifera L.) cv. ˝Modra frankinja˝ with flavescence dorée phytoplasma. Frontiers in Plant Science, 2016, vol. 7, str. 1-19.
- BAR-DROR, Tal, DERMASTIA, Marina, KLADNIK, Aleš, TUŠEK-ŽNIDARIČ, Magda, POMPE NOVAK, Maruša, MEIR, Shimon, BURD, Shaul, PHILOSOPH-HADAS, Sonia, ORI, Naomi, SONEGO, Lilian, DICKMAN, Martin B., LERS, Amnon. Programmed cell death occurs asymmetrically during abscission in tomato. The Plant Cell, 2011, vol. 23, no. 11, str. 4146-4163.

- DERMASTIA, Marina. Pogled v rastline. 2. izd. Ljubljana: Nacionalni inštitut za biologijo, 2010. 237 str., ilustr. ISBN 978-961-92543-4-9. [COBISS.SI-ID 252906240].