

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
Ekotehnologije, 3. stopnja	/	1	2
Ecotechnologies, 3 rd cycle	/	1	2

Vrsta predmeta / Course type

Obvezni / Mandatory

Univerzitetna koda predmeta / University course code:

EKO3-738

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 transferred to individual work.*

Nosilec predmeta / Lecturer:

Prof. dr. Milena Horvat

**Jeziki /
Languages:**

Predavanja / Lectures: slovenščina, angleščina
Slovenian, English

Vaje / Tutorial:

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

Zaključen študij druge stopnje.

Prerequisites:

Completed second cycle studies.

Vsebina:

Študenti bodo razvili sposobnosti spremljanja ter prepoznavanja aktualnih znanstveno raziskovalnih problemov, sodobnih metod raziskovanja, najnovejših rezultatov in uporabe najnovejšega znanja na področju ekotehnologij. Študenti se bodo soočili tudi z izzivi 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 ecotechnologies. Students will also face with the challenges of writing a written review of the selected topics and by sharing of 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 raziskovalnih problemov, sodobnih metodoloških pristopov k njihovi razrešitvi in najnovejših dosežkov na področju ekotehnologij. 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.

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 ecotechnologies. 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:

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 ekotehnologij, kritične ocene pomembnosti objav v znanstveni literaturi, pisnega povzemanja obravnavane vsebine ter njene suverene predstavitve in ustnega komuniciranja z znanstveno javnostjo.

Intended learning outcomes:

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 ecotechnologies. 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:

Seminar, konzultacije, druge metode

Learning and teaching methods:

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:

- ŽIVKOVIĆ, Igor, FAJON, Vesna, KOTNIK, Jože, SHLYAPNIKOV, Yaroslav, OBU, Kristina, BEGU, Ermira, HORVAT, Milena, Relations between mercury fractions and microbial community components in seawater under the presence and absence of probable phosphorus limitation conditions. Journal of Environmental Sciences(China), ISSN 1001-0742, [in press] 2018, 18 str., doi: 10.1016/j.jes.2018.03.012.
- KOBAL, Alfred Bogomir, SNOJ TRATNIK, Janja, MAZEJ, Darja, FAJON, Vesna, GIBIČAR, Darija, MIKLAVČIČ VIŠNJEVEC, Ana, KOČMAN, David, KOTNIK, Jože, SEŠEK-BRIŠKI, Alenka, OSREDKAR, Joško, KRSNIK, Mladen, PREZELJ, Marija, KNAP, Črt, KRIŽAJ, Bojana, LIANG, Lian, HORVAT, Milena. Exposure to mercury in susceptible population groups living in the former mercury mining town of Idrija, Slovenia. Environmental research : multidisciplinary journal of environmental sciences, ecology, and public health, ISSN 0013-9351, Jan. 2017, vol. 152, str. 434-445, ilustr. <http://www.sciencedirect.com/science/article/pii/S0013935116302729>, doi: 10.1016/j.envres.2016.06.037.

- BRATKIČ, Arne, KORON, Neža, RIBEIRO GUEVARA, Sergio, FAGANELI, Jadran, HORVAT, Milena. Seasonal variation of mercury methylation potential in pristine coastal marine sediment from the Gulf of Trieste (Northern Adriatic Sea). *Geomicrobiology journal*, ISSN 0149-0451, 2017, vol. 34, no. 7, str. 587-595.
- HINES, Mark E., COVELLI, Stefano, FAGANELI, Jadran, HORVAT, Milena. Controls on microbial mercury transformations in contaminated sediments downstream of the Idrija mercury mine (West Slovenia) to the Gulf of Trieste (northern Adriatic). *Journal of soils and sediments : protection, risk assessment and remediation*, ISSN 1439-0108, 2017, vol. 17, iss. 7, str. 1961-1971. <http://dx.doi.org/10.1007/s11368-016-1616-x>, doi: 10.1007/s11368-016-1616-x
- FISHBAIN, Barak, ROBINSON, Johanna A., KOČMAN, David, HORVAT, Milena, et al. An evaluation tool kit of air quality micro-sensing units. *Science of the total environment*, ISSN 0048-9697, 2017, vol. 575, str. 639-648, doi: 10.1016/j.scitotenv.2016.09.061.