

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Seminar III
Course title:	Seminar III

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Ekotehnologije, 3. stopnja	/	3	5
Ecotechnologies, 3 rd cycle	/	3	5

Vrsta predmeta / Course type Obvezni / Mandatory

Univerzitetna koda predmeta / University course code: EKO3-774

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 level 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 v obliki članka ter s posredovanjem ugotovitev v obliki neposrednega ustnega komuniciranja.

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 as a paper and by sharing of their findings with oral seminar presentation.

Temeljna literatura in viri / Readings:

Znanstvena literatura s področja seminarja. / Scientific literature from the field of the seminar.

Cilji in kompetence:

Predmet nadgrajuje pridobljeno znanje pri predmetih Seminar I in Seminar II, cilj predmeta je pripraviti pisno celostno predstavitev svojih bistvenih raziskovalnih rezultatov doktorske disertacije v obliki članka ter posredovanje

Objectives and competences:

This course upgrades the knowledge received at Seminar I and Seminar II, its aim is to prepare a written comprehensive presentation of the essential research results of the doctoral dissertation as a scientific paper. An important goal is also the ability

navedenega v obliki ustne predstavitve.

to present their findings in the form of oral presentation.

Predvideni študijski rezultati:

Priprava znanstvenega članka za celostno predstavitev svojih bistvenih raziskovalnih rezultatov doktorske disertacije, njegova predstavitev ter suverena ustna komunikacija o obravnavanih vsebinah.

Dokazano celovito znanje z raziskovalnega področja študijskega programa.

Intended learning outcomes:

Preparation of a scientific paper for a comprehensive presentation of the essential research results of the doctoral dissertation and oral presentations based on their own research work.

Demonstration of comprehensive knowledge from the research field of study programme.

Metode poučevanja in učenja:

Seminar, konzultacije, druge metode

Learning and teaching methods:

Seminar, consultations, other methods

Načini ocenjevanja:	Delež (v %) / Weight (in %)	Assessment:
<p>Seminarska naloga (članek s področja doktorske disertacije).</p> <p>Ustna predstavitev in zagovor seminarske naloge.</p> <p>Seminar III študent opravi tako, da pred komisijo treh profesorjev predstavi svoje raziskovalno delo na doktorskem študiju in dokaže celovito znanje z raziskovalnega področja študijskega programa. Z mentorjem uskladi datum in uro seminarja ter na info@mps.si najmanj en teden pred predstavitvijo sporoči datum, uro, prostor in naslov seminarja. Predsednik komisije je predstojnik študijskega programa ali njegov pooblaščen predstavnik, člana komisije pa sta tudi mentor in praviloma vsaj en član komisije za oceno disertacije. Po opravljenem Seminarju III odda v tajništvo MPŠ izpolnjen in podpisan zapisnik Seminarja III, izpitno prijavnico za Seminar III, seminarsko nalogo (članek s področja doktorske disertacije) ter natisnjene prosojnice seminarja.</p>	<p>70 %</p> <p>30 %</p>	<p>Seminar (scientific paper on the topic of the doctoral dissertation).</p> <p>Oral presentation and defense of the seminar work.</p> <p>Seminar III assessment is based on the presentation of the student's doctoral project in front of a committee of three IPS professors, where the student also demonstrates comprehensive knowledge from the research field of the study programme. The student and the supervisor jointly set the date and time of the seminar. At least one week before the presentation, the student shall communicate the date, time, room and title of the seminar to info@mps.si. The Head of the study program or his authorised representative is the president of the commission, supervisor and usually also one of the members of the commission for the evaluation of the dissertation are also members. After presenting Seminar III, the student must submit to the IPS Secretariat the filled out and signed minutes of Seminar III, Seminar III exam application, printed seminar work (scientific paper on the topic of the doctoral dissertation), as well as printout of slides presented at the seminar.</p>

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