



Univerza v Mariboru

Fakulteta za naravoslovje
in matematiko

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Strokovna praksa na področju bioloških in ekoloških ved
Course title:	Professional practice in the field of biological and ecological sciences

Študijski program in stopnja Study programme and cycle	Študijska smer Study option	Letnik Academic year	Semester Semester
Biologija in ekologija z naravovarstvom, 2. stopnja	/	1, 2	2, 3
Biology and Ecology with Nature Conservation, 2 nd cycle	/	1, 2	2 nd , 3 rd

Vrsta predmeta / Course type

Univerzitetna koda predmeta / University course code:

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Klinične vaje work	Druge oblike študija	Samost. delo Individ. work	ECTS
	20				160	6

Nosilec predmeta / Lecturer:

Jeziki / Languages:

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

Prisotnost na kontaktnih urah na fakulteti v okviru predmeta (priprava na prakso).

Prerequisites:

Participation in contact hours at the faculty within the subject (preparation for practice).

Vsebina:

Študent na izbirani organizaciji (npr. podjetja, visokošolski zavodi, nevladne organizacije, podporne ustanove, svetovalne službe) s področja ekoloških in bioloških ved s samostojnim delom sodeluje v obsegu 120 ur (tri delovne tedne). Praksa poteka na inštitucijah, s katerimi ima Oddelek za biologijo sklenjen dogovor.

- Priprava na prakso: študentje se seznanijo s terminskim in strukturnim potekom prakse. Seznanjeni se jih s temeljnimi raziskavami in projekti na izbranem področju opravljanja prakse, z izbrano ustanovo, umeščanjem v kontekst študija in bodoče zaposlitve.
- Pisanje poročila in predstavitev: študenta se seznanijo s pisanjem poročila med prakso ter o pripravi predstavitve ob koncu prakse. Predstavitve poteka pred ostalimi študenti na fakulteti.

Na izbrani ustanovi opravljanja prakse se študentu dodeli mentorja, ki spremlja študentovo delo med prakso in na koncu odda izpolnjen obrazec o opravljeni praksi. Potrdilo ustanove o opravljeni strokovni praksi je obvezna priloga k oddanemu poročilu študenta.

Content (Syllabus outline):

The student participates in the chosen organization (e.g. companies, higher education institutions, non-governmental organizations, support organizations, counseling services and centers) in the field of ecological and biological sciences for 120 hours (three working weeks). The practice takes place in institutions with which the Department of Biology has an agreement.

- Preparation for the practice: Students will be familiarized with the timing and structure of the practice. They are acquainted with the basic research and the projects in the chosen field of practice and within the chosen institution, the placement in the context of the studies and the future employment.
- Report writing and presentation: The student will be familiarized with writing a report during the practice and preparing a presentation at the end of the practice. The presentation will take place in front of other students at the faculty.

At the selected institution, the student will be assigned a mentor who will supervise the student's work during the internship and eventually submit a completed practice form. The certificate of the institution is a mandatory appendix to the submitted practice report.

Temeljni literatura in viri / Readings:

- Različni spletni in drugi viri o ustanovi, kjer bo potekala praksa.
- Znanstvene in strokovne reference z ožjega področja opravljanja prakse.
- Specifično literaturo, ki se nanaša na področje prakse, jim posreduje nosilec predmeta vsako leto, glede na interes študentov.
/
- Various online and other resources about the institution where the practice will take place.
- Scholarly and professional references from the narrow field of practice.
- Specific literature from the field of practice will be made available to students by the subject holder on an annual basis according to the students interest.

Cilji in kompetence:**Študentje:**

- Se seznanijo z organizacijo in delovanjem ustanove.
- Usvojijo praktična znanja in veščine ter pridobijo specifične spretnosti .
- Znajo uporabiti pridobljena teoretična znanja v praksi.
- Se urijo v reševanju konkretnih problemov.
- Uvidijo prednosti timskega dela.

Objectives and competences:**Students:**

- Become familiar with the organization and operation of the institution.
- Acquire practical knowledge and specific skills.
- Know how to apply the acquired theoretical knowledge in practice.
- Are trained in solving concrete problems.
- See the advantages of teamwork.

Predvideni študijski rezultati:**Znanje in razumevanje:**

Po uspešno opravljeni učni enoti študent:

- se sezani z delovanjem ustanove,
- osvoji praktična znanja in izkušnje s področja, za katerega se izobražuje,
- pridobi spretnosti pri reševanju zastavljenih problemov,
- analizira in vrednoti različne oblike sodelovanja in se uri v delovnem okolju,
- spozna pomen usvojenega teoretičnega znanja in ga uporabi v delovnem okolju,
- osvoji sposobnost samostojnega pisanja poročil in strokovnega poročanja o delu.

Prenosljive/ključne spretnosti in drugi atributi

Pridobljena teoretična znanja prenesti v delovno oziroma poklicno okolje.

Intended learning outcomes:

Knowledge and understanding:

Students:

- Get acquainted with the work in the institution
- Acquires practical knowledge and experience of the professional field for which students are being trained.
- Acquires problem solving skills
- Analyzes and evaluates different forms of cooperation and is trained in the work environment
- Learns the importance of transferring acquired theoretical knowledge and applies it in the work environment. Acquires the ability to write reports independently and to report professionally on the work done.

Transferable/Key Skills and other attributes:

Transfer the acquired theoretical knowledge to the work environment or future profession.

Metode poučevanja in učenja:

Seminar
Navodila
Razgovor
Applikativna uporaba teoretičnih znanj
Opazovanje

Learning and teaching methods:

Seminar
Instructions
Discourse
Application of theoretical knowledge
Observation

Načini ocenjevanja:	Delež (v %) / Weight (in %)	Assessment:
Način (pisni izpit, ustno izpraševanje, naloge, projekt): Samostojno delo študenta se oceni z je opravi/ni opravi . Oceno poda mentor na izbrani ustanovi.		Type (examination, oral, coursework, project):
Poročilo o opravljeni praksi Seminarska naloga z ustno predstavitvijo	50 % 50 %	Portfolio Seminar essay with oral presentation

Reference nosilca / Lecturer's references:

DEVETAK, Dušan, PODLESNIK, Jan, KLOKOČOVNIK, Vesna. Predator-prey interactions in antlions: transmission of vibrational signals deep into the sand. *Acta entomologica slovenica*. dec. 2018, vol. 26, št. 2, str. 121-130, ilustr. ISSN 1318-1998. [COBISS.SI-ID 1957365]

KLOKOČOVNIK, Vesna, VELER, Eva, DEVETAK, Dušan. Antlions in interaction : confrontation of two competitors in limited space. *Israel journal of ecology & evolution*. 2020, vol. 66, iss. 1/2, str. 73-81, ilustr. ISSN 1565-9801. DOI: 10.1163/22244662-20191058. [COBISS.SI-ID 24894216] financer: ARRS, Programi, P1-0403 (A), SI, Računsko intenzivni kompleksni sistemi

DEVETAK, Dušan, POPOV, Alexi, RAUSCH, Hubert, KRPAČ, Vladimir, HRISTOVSKI, Slavčo, KLENOVŠEK, Tina, PODLESNIK, Jan, KLOKOČOVNIK, Vesna. The brown lacewing *Hemerobius schedli* Hölzel, 1970 in the Balkan Peninsula : (Neuroptera, Hemerobiidae). *Spixiana : Zeitschrift für Zoologie*. 2021, bd. 44, h. 1, str. 63-70, ilustr. ISSN 0341-8391. [COBISS.SI-ID 84543491] financer: ARRS, Programi, P1-0403, SI, Računsko intenzivni kompleksni sistemi

KLOKOČOVNIK, Vesna, DEVETAK, Dušan. Efficiency of antlion trap design and larval behavior in capture success. *Behavioral ecology*. 2022, vol. 33, no. 1, str. 184-189, ilustr. ISSN 1045-2249. DOI: 10.1093/beheco/arab124. [COBISS.SI-ID 84527107] financer: ARRS, Programi, P1-0403, SI, Računsko intenzivni kompleksni sistemi; Razvoj raziskovalne infrastrukture za mednarodno konkurenčnost slovenskega RRI prostora - RI-SI-LifeWatch