



OPIS PREDMETA / SUBJECT SPECIFICATION

Predmet:	Arahnologija
Subject Title:	Arachnology

Študijski program Study programme	Študijska smer Study field	Letnik Year	Semester Semester
Biologija in ekologija z naravovarstvom /Biology and ecology with nature conservation	Biologija / Biology	2	3

Univerzitetna koda predmeta / University subject code:

Predavanja Lectures	Seminar Seminar	Sem. vaje Tutorial	Lab. vaje Lab. work	Teren. vaje Field work	Samost. delo Individ. work	ECTS
30	30			15	135	7

Nosilec predmeta / Lecturer:

Jeziki / Predavanja / Lecture:
Languages: Vaje / Tutorial:

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

Prerequisites:

Vsebina:

Pajkovci (Arachnida) so druga največja skupina členonožcev z značilno telesno zgradbo: eno- ali dvočlenskim trupom, dvema paroma pipalk ter štirimi pari nog. Arahnologija obsega pregled skupine po posameznih poglavjih. Kratkemu taksonomskemu in anatomskemu pregledu sledijo poglavja o lokomociji, prehrani in razmnoževanju. Scorpiones, Shizomida, Uropygi, Amblypygi, Araneae, Palpigradi, Solifugae, Pseudoscorpiones, Ricinulei, Acari, Opiliones. Stnjeno je predstavljena filogenija pajkovcev. Poudarek je na obravnavi ekoloških značilnosti skupin ter izbranih konkretnih ekoloških problemih. Podan je pregled skupin pajkovcev v svetu in Sloveniji. Predmet je zasnovan prilagodljivo glede na konkretne interese študentov v zvezi z biologijo in ekologijo posameznih skupin pajkovcev.

Contents (Syllabus outline):

The arachnids (Arachnida) are the second major articulata group having a typical habitus: a body consisting of one or two main parts, chelicerae, palps and four pairs of legs. The study involves an overview of the group by the following chapters. The overview starts with a short taxonomical and anatomical explanation, followed by the chapters on locomotion, nourishment and reproduction. Scorpiones, Shizomida, Uropygi, Amblypygi, Araneae, Palpigradi, Solifugae, Pseudoscorpiones, Ricinulei, Acari, Opiliones. Short introductory presentation of arachnid phylogeny is made. Ecological characteristics of arachnid groups, and selected ecological problems are discussed. An overview of the arachnid groups in the world and in Slovenia is presented. The course is focused on the arachnid group groups and special aspects of their biology and ecology with respect to the student interest.

Temeljni študijski viri / Textbooks:

- Fet, V., P. A. Selden (eds.), 2001: **Scorpions 2001. In Memoriam Gary A. Polis.** Burnham Beeches, Bucks, British Arachnological Society.
- Foelix, R. F., 1996: Biology of spiders. Oxford University Press & Georg Thieme Verlag.
- Hillyard, P. D., J. H. P. Sankey, 2005: Harvestmen (Opiliones). Synopses of the British Fauna 4. Mus. Nat.-hist. London.

- Pinto-da-Rocha, R., G. Machado, G. Giribet, 2006: Harvestman: The Biology of Opiliones. Harvard University Press, Cambridge, MA.
- Thaler, K. (ed.), 2005: Diversität und Biologie von Webspinnen, Skorpionen und anderen Spinnentieren. Denisia 12.
- Weygoldt, P. 1969: Biology of Pseudoscorpions. Harvard University Press.
- Izbrani članki iz revij/Selected articles from the journals Journal of Arachnology, Acarologia itd./etc.

Cilji:

- Študenti dobijo pregled o biologiji in ekologiji pajkovcev, podrobneje o izbrani skupini

Objectives:

- Students get an overview of biology and ecology of arachnids, and in details of their of interest group

Predvideni študijski rezultati:

Znanje in razumevanje:

- Študent dobi pregled nad skupinami pajkovcev v svetu in v Sloveniji
- Študent se seznanj z aktualnimi problemi, ki se nanašajo na pajkovce, v svetu in pri nas
- Študent izdela podroben načrt raziskave izbranega odprtega problema na področju arahnologije

Prenesljive/ključne spretnosti in drugi atributi:

- Študent se usposobi za načrtovanje raziskav izbranih odprtih vprašanj na področju arahnologije

Intended learning outcomes:

Knowledge and Understanding:

- Students get an overview upon the arachnid groups in the World and in Slovenia
- Students capture the actual problems concerning arachnids in the World and in Slovenia
- Students produce a detailed investigation plan of a selected open problem in the field of arachnology

Transferable/Key Skills and other attributes:

- Students get skills of planning research studies in selected open problems in arachnology

Metode poučevanja in učenja:

- Predavanja
- Seminar
- Terenske vaje
- Individualno delo

Learning and teaching methods:

- Lectures
- Seminar
- Field work
- Individual work

Načini ocenjevanja:

- Seminarska naloga
- Ustni izpit

Delež (v %) /
Weight (in %)

50
50

Assessment:

- Seminar essay
- Oral exam

Materialni pogoji za izvedbo predmeta :

Material conditions for subject realization

- **Multimedijska predavalnica**
- **Mikroskopirnica**
- **Zbirka pajkovcev**

- *Lecture hall for multimedia presentations*
- *Microscope Practicum*
- *Arachnids Collection*

Obveznosti študentov:

(pisni, ustni izpit, naloge, projekti)

- Seminaraska naloga
- Ustni izpit

Students' commitments:

(written, oral examination, coursework, projects):

- Seminar essay
- Oral exam