



OPIS PREDMETA / SUBJECT SPECIFICATION

Predmet:	Izbrana poglavja iz ekotoksikologije
Subject Title:	Selected Topics in Ecotoxicology

Študijski program Study programme	Študijska smer Study field	Letnik Year	Semester Semester
Doktorski študij Ekološke znanosti / Doctoral Study Ecological Sciences		Izbirni 1 ali 2 ali 3	2 ali 3 ali 4 ali 5

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
5	5				140	5

Nosilec predmeta / Lecturer:

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

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

Poznavanje biokemije in organizmov na ravni univerzitetnega programa	Knowledge of biochemistry and organisms at graduate level
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Vsebina: **Contents (Syllabus outline):**

<p>Obravnavana so izbrana poglavja iz naslednjih sklopov.</p> <ul style="list-style-type: none"> • Tipi onesnažil okolja (anorganski, organski, težke kovine itd.) • Načini vnosa v ekosisteme • Razporejanje onesnažil v ekosistemih • Učinki onesnažil na nivoju celice, organizma, populacije in ekosistema • Biomarkerji in biosenzorji • Biološko testiranje v ekotoksikologiji • Ocena tveganja 	<p>Selected topics in the following chapters are discussed.</p> <ul style="list-style-type: none"> • Different pollutants (anorganic, organic, heavy metals etc.) • Entry of pollutants in ecosystems • Distribution of pollutants in ecosystems • Effects of pollution at different levels (cell, organism, population, ecosystem) • Biomarkers and biosensors • Biological testing in ecotoxicology • Risk assessment
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Temeljni študijski viri / Textbooks:

<ul style="list-style-type: none"> • Newman, M. C., M. A. Unger, 2003: Fundamentals of Ecotoxicology. Lewis Publishers 2nd edition. • Walker, C.H., S. P. Hopkin, R. M. Sibly, D. B. Peakall, 2001: Principles of Ecotoxicology. Taylor&Francis 2nd edition.
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Cilji: _____ **Objectives:** _____

<p>Študent spozna:</p> <ul style="list-style-type: none"> • Podrobno poznavanje načinov testiranja strupenosti • Podrobno poznavanje možnih učinkov onesnaževanja na populacije in ekosisteme

<p>Student learns:</p> <ul style="list-style-type: none"> • Advanced knowledge of testing methods in ecotoxicology • Advanced knowledge of possible effects of pollution on populations and ecosystems
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Predvideni študijski rezultati:

Intended learning outcomes:

<p>Študent:</p> <ul style="list-style-type: none"> • Podrobno razumevanje mehanizme v ekotoksikologiji • Podrobno poznavanje načinov testiranja v ekotoksikologiji <p>Prenesljive/ključne spretnosti in drugi atributi:</p> <ul style="list-style-type: none"> • Kreativno vključevanje pridobljenega znanja v razumevanje drugih ekoloških in naravovarstvenih predmetov • Kreativno vključevanje pridobljenega znanja pri presoji vplivov na okolje

<p>Student:</p> <ul style="list-style-type: none"> • Advanced understanding of mechanisms in ecotoxicology • Advanced knowledge of principles of testing methods in ecotoxicology <p>Transferable/Key Skills and other attributes:</p> <ul style="list-style-type: none"> • Creative use of knowledge of ecotoxicology into other ecological and nature conservation subjects • Creative use of knowledge of ecotoxicology in risk assessment

Metode poučevanja in učenja:

Learning and teaching methods:

<ul style="list-style-type: none"> • Predavanja • Seminar

<ul style="list-style-type: none"> • Lectures • Seminar work
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Načini ocenjevanja:

Delež (v %) /
Weight (in %)

Assessment:

<ul style="list-style-type: none"> • Pisni izpit • Projektno naravnana seminarska naloga 	<p>50 %</p> <p>50 %</p>	<ul style="list-style-type: none"> • Written exam • Problem oriented seminar essay
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Materialni pogoji za izvedbo predmeta :

<ul style="list-style-type: none"> • <i>Multimedijska predavalnica</i>

Material conditions for subject realization

<ul style="list-style-type: none"> • <i>Lecture hall for multimedia presentations</i>
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Obveznosti študentov:

(pisni, ustni izpit, naloge, projekti)

<ul style="list-style-type: none"> • Pisni izpit • Projektno naravnana seminarska naloga
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Students' commitments:

(written, oral examination, coursework, projects):

<ul style="list-style-type: none"> • Written exam • Problem oriented seminar essay
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