



Univerza v Mariboru

Fakulteta za naravoslovje
in matematiko

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Pedogeografija
Course title:	Pedogeography

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Ekologija z naravovarstvom, 1. stopnje		2. ali 3.	4.
Ecology with nature protection, 1st. degree		2 nd or 3 rd	4 th

Vrsta predmeta / Course type:

Univerzitetna koda predmeta / University course code:

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Lab. vaje Laboratory work	Druge oblike študija	Samost. delo Individ. work	ECTS
15		15	15		135	6

Nosilec predmeta / Lecturer:

Jeziki / Languages: Predavanja / Lectures:
Vaje / Tutorial:

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

Jih ni

Prerequisites:

None

Vsebina:

Content (Syllabus outline):

<ul style="list-style-type: none"> • Prst kot element pokrajine. • Dejavniki nastanka in razvoja prsti. • Sestava prsti (mineralni in organski del). • Fizikalne in kemijske lastnosti prsti. • Profili prsti in horizonti. • Značilnosti prsti na Zemlji in njihova sistematika. • Prsti v Sloveniji. • Pedološka karta Slovenije in ostale prostorske pedološke baze. <p>Metodologija proučevanja prsti v pokrajini</p>	<ul style="list-style-type: none"> • The soil layer as a landscape element. • Soil development and soil genesis factors. • Soil structure (mineral and organic compartments) • Physical and chemical properties of soils. • Soil profiles and soil horizons. • Soils properties in the World and their classification. • Soils in Slovenia. • The pedological map of Slovenia and other geospatial pedological databases • Soil field-based research methodology
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Temeljni literatura in viri / Readings:

<ul style="list-style-type: none"> • OBVEZNA LITERATURA/ OBLIGATORY READINGS: <ol style="list-style-type: none"> 1. Ellis, S., 1995: Soils and environment. Routledge, London. (izbrana poglavja) 2. Lovrenčak, F., 1994: Pedobiogeografija. Filozofska fakulteta, Ljubljana. (izbrana poglavja) <ul style="list-style-type: none"> • PRIPOROČENA LITETATURA/ FACULTATIVE READINGS: <ol style="list-style-type: none"> 1. Vovk Korže, A., Lovrenčak, F., 2001: Priročnik za laboratorijske analize prsti v geografiji. Ljubljana: Filozofska fakulteta, Oddelek za geografijo; v Mariboru: Pedagoška fakulteta. 2. Vovk Korže, A., Lovrenčak, F., 2004: Priročnik za spoznavanje prsti na terenu. FF, Ljubljana.
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Cilji in kompetence:

<ul style="list-style-type: none"> • študentje pojasnijo nastanek, zgradbo in lastnosti prsti na Zemlji • študentje prepoznajo in določijo temeljne tipe prsti v globalnem, regionalnem in lokalnem merilu • študentje povežejo dejavnike nastanka prsti z njihovimi lastnostmi in geografsko razporeditvijo • študentje opišejo nastanek pedološki kart • študentje uporabijo podatke pedoloških kart in povežejo le-te z aktualno rabo tal • študentje uporabijo metode terenskega spoznavanja prsti 	<h3>Objectives and competences:</h3> <ul style="list-style-type: none"> • students explain the formation, structure and properties of different soil on Earth • students recognize and determine the basic soil types on a global, regional and local scale • students connect the soil formation factors with their properties and geographical distribution • students describe the development of a pedological map • students use pedological map data and connect them with current land use • students use different field pedological methods
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Predvideni študijski rezultati:

<h4>Znanje in razumevanje:</h4> <ul style="list-style-type: none"> • študentje povezujejo pedološke, geografske, biološke in ekološke vsebine vezane na procese , ki preoblikujejo 	<h4>Intended learning outcomes:</h4> <h4>Knowledge and Understanding:</h4> <ul style="list-style-type: none"> • students associate pedological, geographical, biological and ecological content related to proses that transform
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<p>Zemljino površje in vplivajo na litosfero, pedosfero, hidrosfero, atmosfero in biosfero.</p> <ul style="list-style-type: none"> • študentje prepoznajo in, po nastanku, lastnostih in geografski razporeditvi, primerjajo različne tipe prsti tako v globalnem kot v lokalnem merilu (Slovenija) <p>študentje analizirajo vzroke za nastanek različnih tipov prsti in povezujejo le-te z geografsko razporeditvijo vegetacije in rabe tal</p> <p>Prenosljive/ključne spretnosti in drugi atributi:</p> <ul style="list-style-type: none"> • študentje uporabljajo dostopne pedološke vire in povezujejo le-te z ostalimi krajinskimi elementi • študentje uporabljajo metode pedološkega terenske dela <p>študentje povezujejo naravne in družbene dejavnike, ki vplivajo na lastnosti prsti</p>	<p>the Earth's surface and influence the lithosphere, pedosphere, hydrosphere, atmosphere and biosphere.</p> <ul style="list-style-type: none"> • students identify and, after their origin, characteristics and geographical distribution, compare different soil types both globally and locally (Slovenia) • students analyze the causes of the formation of different soil types and link them to the geographical distribution of vegetation and modern land use <p>Transferable / Key Skills and other attributes:</p> <ul style="list-style-type: none"> • students use accessible pedological sources and associate them with other landscape elements • students use methods of pedological field work <p>students connect natural and social factors that influence the properties of soil types</p>
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<p>Metode poučevanja in učenja:</p> <ul style="list-style-type: none"> • Predavanja • Laboratorijske vaje • Terenske vaje • Individualno delo 	<p>Learning and teaching methods:</p> <ul style="list-style-type: none"> • Lectures • Laboratory excersises • Field excersises • Individual work
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Delež (v %) / Weight (in %)		
<p>Načini ocenjevanja:</p> <ul style="list-style-type: none"> • Pisni izpit 	100	<p>Assessment:</p> <ul style="list-style-type: none"> • Written examination

Reference nosilca / Lecturer's references:

- IGNJATOVIĆ, Maša, KALIGARIČ, Mitja, ŠKORNIK, Sonja, IVAJNŠIČ, Danijel. Spatio-temporal patterns along a primary succession on alluvial sediments. *Central European journal of biology*, ISSN 1895-104X, 2013, vol. 8, iss. 9, str. 888-897, doi: [10.2478/s11535-013-0205-x](https://doi.org/10.2478/s11535-013-0205-x). [COBISS.SI-ID [19959304](#)]
- IVAJNŠIČ, Danijel, ŠKORNIK, Sonja, KALIGARIČ, Mitja. Spremembe rabe tal med leti 1830 in 2008 na območju Movraškega Krasa in na bližnjih flišnih predelih. *Revija za geografijo*, ISSN 1854-665X. [Tiskana izd.], 2013, 8, [št.] 1, str. 83-95, ilustr. [COBISS.SI-ID [20257032](#)]
- IVAJNŠIČ, Danijel, COUSINS, Sara A. O., KALIGARIČ, Mitja. Colonization by Robinia pseudoacacia of various soil and habitat types outside woodlands in a traditional Central-European agricultural

landscape. *Polish journal of ecology*, ISSN 1505-2249, 2012, vol. 60, iss. 2, str. 301-309. [COBISS.SI-ID [19075848](#)]

- KRYŠTUFEK, Boris, STANCIU, Cătălin-Răzvan, IVAJNŠIČ, Danijel, CHERKAOUI, Sidi Imad, JANŽEKOVIČ, Franc. Facts and misconceptions on the Palaearctic existence of the striped ground squirrel. *Mammalia : morphologie, biologie,systematique des mammiferes*, ISSN 0025-1461, 2018, vol. 82, iss. 3, str. 248-255, ilustr., doi: [10.1515/mammalia-2017-0060](#). [COBISS.SI-ID [23380744](#)]