



Univerza v Mariboru



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Fakulteta za naravoslovje in
matematiko

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet: Splošna botanika

Course title: General Botany

Študijski program in stopnja

Študijska smer

Letnik

Semester

Study programme and level

Study field

Academic year

Semester

Univerzitetni študijski program prve stopnje Izobraževalna biologija (dvopredmetni študijski program)		1	1
University study programme first level Educational Biology (two-subject study programme)		1	1

Vrsta predmeta / Course type

Obvezni / Obligatory

Univerzitetna koda predmeta / University course code:

Predavanja	Seminar	Sem. vaje	Lab. vaje	Teren. vaje	Samost. delo	ECTS
Lectures	Seminar	Tutorial	Laboratory work	Field work	Individ. work	

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Nosilec predmeta / Lecturer:

Mitja KALIGARIČ

Jeziki /

Predavanja / Lectures: Slovenski/Slovenian

Languages:

Vaje / Tutorial: Slovenski/Slovenian

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

Jih ni.

Prerequisites:

None.

Vsebina:

- Citologija: funkcionalna struktura celice
- Delitev celice: mitotična, mejoza
- Histologija: funkcionalna struktura tkiv
- Rastlinski organi

Content (Syllabus outline):

- Citology: cell functional structure
- Cell division: mitosis, meiosis
- Histology: functional structure of tissues
- Plant organs

Temeljna literatura in viri / Readings:

- Mauseth, J. D., 2003: Botany. An introduction to Plant Biology. Jones and Bartlett Publishers, Massachusetts.
- Raven, P. H., Evert, R. F., Eichhorn, S. E., 1999: Biology of Plants. W. H. Freeman and company Worth Publishers.
- Sitte, P., Weiler, E. W., Kadereit, J. W., Bresinsky, A., Körner, C., 2002: Lehrbuch der Botanik. 35. Auflage. Spektrum Akademischer Verlag Heidelberg, Berlin.

Cilji in kompetence:

- Razumeti funkcionalno strukturo celice
- Razumeti delitev celice
- Razumeti strukturo in funkcijo tkiv in organov

Objectives and competences:

- To understand the structure and functioning of cell
- To understand the cell division
- To understand the structure and functioning of tissues and organs

Predvideni študijski rezultati:

Znanje in razumevanje:
<ul style="list-style-type: none"> • Študent dobi vpogled v osnovno razumevanje zgradbe in delovanja rastlinske celice, tkiv in organov.
Prenesljive/ključne spretnosti in drugi atributi:
<ul style="list-style-type: none"> • Študent osvoji nekaj glavnih metod in dobi vpogled v prepoznavanje in delovanje celic, tkiv in organov rastlinskih organizmov.

Intended learning outcomes:

Knowledge and Understanding:
<ul style="list-style-type: none"> • Student should get an overview and basic understanding of plant cell, tissues and organs.
Transferable/Key Skills and other attributes:
<ul style="list-style-type: none"> • Student capture the most important methods and get insights to recognition and functioning of plant cells, tissues and organs.

Metode poučevanja in učenja:

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

Learning and teaching methods:

<ul style="list-style-type: none"> • Lectures • Laboratory exercises
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Delež (v %) /

Načini ocenjevanja:

Weight (in %)

Assessment:

<ul style="list-style-type: none"> • Praktični kolokvij iz laboratorijskega dela • Pisni izpit 	50	<ul style="list-style-type: none"> • Practical examination of laboratory skills • Written examination
	50	

Reference nosilca / Lecturer's references:

<ul style="list-style-type: none"> • KALIGARIČ, Mitja, BOHANEČ, Borut, SIMONOVIK, Biljana, ŠAJNA, Nina. Genetic and morphologic variability of annual glassworts (<i>Salicornia</i> L.) from the Gulf of Trieste (Northern Adriatic). <i>Aquat. bot.</i> [Print ed.], 2008, vol. 89, iss. 3, str. 275-282. http://dx.doi.org/10.1016/j.aquabot.2008.02.003, doi: 10.1016/j.aquabot.2008.02.003. [COBISS.SI-ID 15855880] • TUBA, Zoltán, KALIGARIČ, Mitja. Grassland ecology in changing climate and land use. <i>Community ecol.</i> (Print), 2008, vol. 9, suppl. 1, str. 3-12. http://dx.doi.org/10.1556/ComEc.9.2008.S.3, doi: 10.1556/ComEc.9.2008.S.3. [COBISS.SI-ID 16601096] • ŠKORNIK, Sonja, ŠAJNA, Nina, KRAMBERGER, Branko, KALIGARIČ, Simona, KALIGARIČ, Mitja. Last remnants of riparian wooded meadows along the middle Drava River (Slovenia) : species composition is a response to light conditions and management. <i>Folia geobot.</i>, dec. 2008, vol. 43, no. 4, str. 431-445.

<http://dx.doi.org/10.1007/s12224-008-9024-7>, doi: 10.1007/s12224-008-9024-7. [COBISS.SI-ID 16419336]

- KALIGARIČ, Mitja, TOGNETTI, Roberto, JANŽEKOVIČ, Franc, RASCHI, Antonio. Leaf fluctuating asymmetry of *Myrtus communis* L., affected by increases in atmospheric CO₂ spring. *Pol. J. Environ. Stud.*, 2008, vol. 17, no. 4, str. 503-508. [COBISS.SI-ID 16045320]
- KALIGARIČ, Mitja, MEISTER, Margit H., ŠKORNIK, Sonja, ŠAJNA, Nina, KRAMBERGER, Branko, BOLHÁR-NORDENKAMPF, Harald R. Grassland succession is mediated by umbelliferous colonizers showing allelopathic potential. *Plant Biosyst.* (Firenze, Testo stamp.), 2011, vol. 145, no. 3, str. 688-698, ilustr. [COBISS.SI-ID 18617608]