



Univerza v Mariboru

Fakulteta za naravoslovje
in matematiko

UČNI NAČRT PREDMETA / COURSE SYLLABUS

Predmet:	Splošna botanika
Course title:	General Botany

Študijski program in stopnja Study programme and level	Študijska smer Study field	Letnik Academic year	Semester Semester
Enovit magistrski študijski program druge stopnje Predmetni učitelj	/	1	1
Five-year master's degree program Subject Teacher	/		

Vrsta predmeta / Course type Obvezni / Obligatory

Univerzitetna koda predmeta / University course code:

Predavanja Lectures	Seminar Seminar	Vaje Tutorial	Lab. vaje Laboratory work	Terenske vaje Field work	Samost. delo Individ. work	ECTS
45			45		60	5

Nosilec predmeta / Lecturer: Mitja Kaligarič

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

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

Jih ni

Prerequisites:

None

Vsebina:

Citologija: funkcionalna struktura celice
Delitev celice: mitozna, 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

Temeljni 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

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To understand the structure and functioning of tissues and organs

Predvideni študijski rezultati:

Znanje in razumevanje:
Študent dobi vpogled v osnovno razumevanje zgradbe in delovanja rastlinske celice, tkiv in organov.
Prenesljive/ključne spretnosti in drugi atributi:
Študent osvoji nekaj glavnih metod in dobi vpogled v prepoznavanje in delovanje celic, tkiv in organov rastlinskih organizmov.

Intended learning outcomes:

Knowledge and understanding:
Student should get an overview and basic understanding of plant cell, tissues and organs.
Transferable/Key Skills and other attributes:
Student capture the most important methods and get insights to recognition and functioning of plant cells, tissues and organs.

Metode poučevanja in učenja:

Learning and teaching methods:

Predavanja
Laboratorijske vaje

Lectures
Laboratory exercises

Načini ocenjevanja:	Delež (v %) / Weight (in %)	Assessment:
Praktični kolokvij iz laboratorijskega dela	50	Practical examination of laboratory skills
Pisni izpit	50	Written examination

Reference nosilca / Lecturer's references:

KALIGARIČ, Mitja, BOHANEČ, Borut, SIMONOVİK, Biljana, ŠAJNA, Nina. Genetic and morphologic variability of annual glassworts (*Salicornia* L.) from the Gulf of Trieste (Northern Adriatic). *Aquat. bot.* [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. *Community ecol.* (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. *Folia geobot.*, dec. 2008, vol. 43, no. 4, str. 431-445.

KALIGARIČ, Mitja, TOGNETTI, Roberto, JANŽEKOVİČ, 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]