Study Programme : PhD in Biology

Degree level: Doctoral degree

Course Title: Special Plant Anatomy

Professor: dr Jadranka Luković, dr Lana Zorić

Required/Elective Course: Elective Course

Number of ECTS: 15

Prerequisites: -

Course Objective: Getting knowledge of anatomical characteristics that have diagnostic character, and their application in comparative anatomical analysis of selected families and genera.

Course Outcome: Student should be able to succesfully apply the knowledge from this field in indetifications and determination of some taxa and taxonomic groups of different level.

Course Content:

Theoretical part – Getting konwledge about anatomical characters of taxonomic importance. Diagnostic anatomical characters of vegetative organs of dicotyledon and monocotyledon plants. Diagnostic characters of reproductive organs of flowering plants. Analysis of anatomical diagnostic characters of the most important families of flowering plants.

Practical part – The structure of practical work is in accordance with candidat's field of research and the subject of PhD thesis.

Reading List: Carlquist S. (1961): Comparative Plant Anatomy, Holt, Renehart and Winston, New York.
Carlquist S. (1988): Comparative wood anatomy. Springer-Verlag, Heidelberg
Dickison C. W. (2000): Integrative plant anatomy, Harcourt academic press, New York, London.
Foster A.S. & Gifford E.M. (1974): Comparative Morphology of Vascular Plants (2nd edn), W.H. Freeman&Co.San Francisco
Metcalfe C.R.&Chalk L. (1950): Anatomy of Dicotyledons, vols I&II, Clarendon Press, Oxford.
Metcalfe C.R.(1960): Anatomy of Monocotyledons, I *Gramineae*
new literature and published papers available on internet

Total hours:				
Lectures: 5	Practicals:	Other:	Student research work: 5	

Methods of instruction:
lectures, practical work, student research work, consultations

Assessment (maximum number of points 100)

Requirements: The exam is oral. Prerequisites for oral exam are: active involvement of students in experimental work on specific subjects dealing with Special Plant Anatomy, written and presented student's practical work and read out of several scientific papers from this field.

Remark: