

Title	Biology of rhizosphere
Lecture hours:	15
Study period: Summer/winter	Winter/summer
Number of credits	3 ECTS
Assessment methods:	Seminar
Language of instruction:	English
Prerequisites:	High school biology
Course content:	Soil organisms: diversity and ecological strategies; The soil food web; Functions of soil organisms in ecosystems; Symbiotic associations of soil microorganisms; Impact of natural and anthropogenic factors on soil microorganisms; Soil microorganisms as early and sensitive indicators of environmental changes; Investigations of biodiversity, biomass and activity of soil organisms: purposes and methods;
Learning outcomes:	Students will acquire knowledge on the biological diversity and activity of edaphon and understand the functional characteristics of soil environment and microbial communities in a changing world;
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Literature:	Zoe G. Cardon, Julie L. Whitbeck (eds.), 2007. The rhizosphere. The Ecological Perspective. Academic Press. Current original papers and review articles