



Course ID: HAH476	Course name: CHEMISTRY AND QUALITY OF SOIL		
Cycle: FIRST	Year: FOURTH	Semester: VII	ECTS credits: 5
Course status: ELECTIVE	Total course hours: 75 Lectures: 30 Laboratory: 45		
Teaching participants:	Teachers and associates with expertise in the field to which the subject belongs [do not enter names in this section. Leave the wording as indicated in this section]		
Prerequisite for enrollment:	-		
Course aims:	Acquiring basic knowledge about soil composition, soil processes, the appearance of heavy metals in the soil, and the impact on soil quality, as well as laboratory skills in soil analysis		
Thematic course units:	<ol style="list-style-type: none">1. Introduction, general terms; texture - mechanical composition of soil and soil structure2. Soil as a heterogeneous, three-phase system3. Inorganic components of soil; organic components of soil4. Processes in soil5. Physical properties of soil6. Chemical properties of soil7. Soil adsorption complex8. Mobility of metals in soil profiles9. Knowledge test10. Soil sampling, preparation of soil for analysis11. Soil acidity12. Soil fertility, macro and micro nutrition elements in soil13. Physiologically active forms of nitrogen, phosphorus, and potassium14. Treatment of polluted soils15. National legislation		
Learning outcomes:	The student will be able to: <ul style="list-style-type: none">- explain soil composition and soil processes,- state the parameters that define soil quality,- explain the mobility and accessibility of heavy metals in soil,- assess soil quality based on experimentally determined		

