Specification of subjects in undergraduate studies

Subject code: EИ32313

Study program: Ecological engineering for soil and water resources protection

Type and elevel of studies: undergraduate studies

Subject name: Hydrogeology with geomorphology

Teacher (s): Zoran N. Nikić, DSc

Associates: Nenad Marić, PhD

Subject type: compulsory

ECTS: 7

Condition: no

Subject aim: Acquisition of basic knowledge about geo environments and groundwater, which are in function of: a) protection against erosion and soil degradation (landslides, sufosies and others), b) monitoring, use and protection of groundwater resources, c) spatial planning, g) soil ameliorations in relation to groundwater - drainage and irrigation, d) sanitation of landfills (urban, industrial, sanitary, janitorial), etc. Introduction to and acquiring the basic knowledge on the protection, use and importance of groundwater as a strategic natural resource in the field of water supply, irrigation, drainage, sources of ecological energy, balneology and others. The study of morphological forms of geotectonic processes, and the study of exogenous geomorphological processes, their agents, mechanisms and morphological forms.

Subject outcomes: Acquiring the skills of identifying and engineering the cause of beneficial or harmful effects of groundwater presence in the field with the aim of protecting, using and sustainable management of underground water resources and land, then their remediation, conservation, protection from slope processes, hydro-melioration, landfill rehabilitation, spatial planning and other. The acquisition of the skill to get an overview of morphological forms, define their genesis and present them on different topographic maps.