

**Specification of subjects in undergraduate studies**

<b>Subject code:</b> EH31102
<b>Study program:</b> Forestry/ Ecological engineering for soil and water resources protection
<b>Type and level of studies:</b> undergraduate studies
<b>Subject name:</b> Petrography with geology
<b>Teacher (s):</b> Zorica Tomić,DSc; <u>Bojan S. Gajić</u>
<b>Subject type:</b> compulsory
<b>ECTS:</b> 6
<b>Condition:</b> no
<b>Subject aim:</b> Training students to acquire the fundamentals of a number of scientific disciplines within the forestry profession (Forest soil science, Dendrology, Forest Phytocoenology, Plant Physiology, Forest Typology, Silviculture, etc.) and the profession of ecological engineering in the protection of soil and water resources (Hydrogeology with geomorphology, Torrential flows and erosion, Materials in anti-erosion works, Risks of natural disasters, Fundamentals of geotechnics in torrent control, etc.).
<b>Subject outcomes:</b> Acquiring skills and knowledge of identifying minerals and rocks in the field. Introducing their basic chemical composition, essential physical characteristics and products of their decomposition in order to form soil. Students' ability to apply the acquired knowledge in general geology, petrography and historical geology in vocational subjects in the field of erosion control, torrent control, construction of anti-erosion facilities and ecological engineering.