

Specification of subjects in undergraduate studies

Subject code: EI33524
Study program: Ecological engineering for soil and water resources protection
Type and level of studies: undergraduate studies
Subject name: Machinery in anti-erosion works
Teacher (s): Nada Dragović, DSc; Tijana Z.Vulević
Subject type: compulsory
ECTS: 5
Condition: That the student had passed the exams Mathematics and Technical mechanics.
Subject aim: Introduction to the basic characteristics of machines, the types of machines and devices that are used for the execution of technical, biological and biotechnical works for the protection of soil from erosion and the regulation of torrential flows. For these types of works, construction machinery for digging, transport, handling and compaction of soil, as well as machines for works in the field of forest and agricultural land reclamation are applied. The program includes a rational selection of machines for erosion control works through three phases: a wider, narrower and optimal choice, with determining the most economical price of machine work.
Subject outcomes: The acquired knowledge for the application of mechanization for the execution of works on the protection of soil from various forms of degradation, for the execution of technical facilities in torrents of torrential flows, biological and biotechnical works in torrential basins, as well as works in the framework of forest and agricultural soil reclamation.