

Specification of subjects in undergraduate studies

Subject code: EH31207
Study program: Ecological engineering for soil and water resources protection
Type and level of studies: undergraduate studies
Subject name: Geodesy with GIS fundamentals
Teacher (s): Milorad Ž. Janić, DSc
Subject type: compulsory
ECTS: 5
Condition: no
Subject aim: Teaching from the subject Geodesy with GIS aims to provide the students of the study program Forestry necessary knowledge on techniques and methods of collecting geospatial data, their processing, analysis, mapping and proper use of analog and digital cartographic bases, which will enable them to successfully manage natural resources and space, as well as all types of planning, design and monitoring. The content of the course is adapted to the professional profile of engineers, the level of knowledge acquired during the course of the study, and the importance of this material for successfully solving the problems and tasks that they expect in practice.
Subject outcomes: General competencies: understanding the purpose and possibilities of Geodesy and GIS in biotechnical research. The course allows students to be trained according to this technology and direct towards specialized courses. Specific competences: mastering the basic concepts of Geodesy with GIS fundamentals, understanding the principles of work and ways of geospatial thinking, application in various fields of biotechnical research, independence in application at the level of basic use, practical work on the analysis of real problems.