

Geographic Information Systems

Lecturer: Dr. Kornél Czimber, PhD.

Institute: University of Sopron, Faculty of Forestry, Institute of Geomatics and Civil Engineering

Course code: EG131-BAABB

Credit points: 3

Time table: Lecture:1/Lab: 2

Language: English

Course description

Topics

Terms, components and methods of Geoinformation systems. Geomodelling, datum and projection systems. Collecting, storing, retrieving, analyzing and displaying of raster data. Gathering, storing, editing, querying and displaying of vector data. Understanding topology. Surface modeling, 2D/3D analysis and visualization. Attainment of operation of well-known geoinformation software products. Forestry, nature and environment protection related applications and case studies.

References

1. Goodchild, M.F. 1996. GIS and Environmental Modeling: Progress and Research Issues. John Wiley and Sons. 504 p.
2. Chang, K. T. 2008. Introduction to Geographical Information Systems. New York: McGraw Hill. p. 184.