

Hydrology

Lecturer: Prof. Dr. Zoltán Gribovszki; Dr. Péter Kalicz PhD

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

Course code: EG142-A0B00

Credit points: 4

Time table: Lecture:2/Lab:2

Language: English

Course description

Topics

This course will introduce the students to the principles of hydrology and will suggest how to apply them to management of forest and wildlands for water and water-related resources.

Lectures: Basic characteristics of water. Natural hydrologic cycle. Water balance elements and characteristics of them. Hydrometry. Surface water characteristics. Groundwater characteristics. Forest and floods. Water quality.

Practices: Exercises in different part of the Hydrology. Field practice. Field hydrological measurements.

References

1. Hewlett John D.: Principles of Forest Hydrology. The University of Georgia Press, Athens, 1982.
2. S. Lawrence Dingman: Physical Hydrology, Prentice Hall, Upper Sadle River, New Jersey, 2002.
3. Wilfried Brutsaert: Hydrology an Introduction, Cambridge University Press, Cambridge, 2005.
4. Journals: Journal of Hydrology, Water Resorces Research, Hydrological processes, Ground Water, Eco hydrology, Hydrogeology Journal.