

# Hydrometry in Practice

## Course description

**Subject leader:** Zoltán Gribovszki, Ph.D., professor

**Lecturer:** Zoltán Gribovszki, Ph.D., professor; Péter Kalicz Ph.D., associate professor; Péter Csáki MSc. scientific researcher; Katalin Zagyvai-Kiss Ph.D scientific researcher

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

**Course code:**

**Credit points:** 3

**Evaluation:** oral exam / written exam / mid-term grade

**Instruction hours/week (lecture + practice):** 0 + 2 (in blocks)

**Language:** English

## Course content

Surface water related measurements (weirs, cross-section and velocity, slug injection).  
Hydrogeodesy (cross sections, longitudinal profile).

Subsurface hydrology (borehole methods, soil moisture and groundwater measurements).

Watershed scale hydrology (baseflow longitudinal profile, spring measurements).

Eco-hydrology: interception (crown, litter), evapotranspiration, groundwater evaporation.

## Required and recommended reading

Dingman, Lawrence, S. (2002). Physical Hydrology. Prentice-Hall. ISBN: 0-13-099695-5

Gordon, N. D., McMahon, T. A., Finlayson, B. L., & Gippel, C. J. (2004). Stream hydrology: an introduction for ecologists. John Wiley and Sons.

Maidment, D. R. (1993). Handbook of hydrology (Vol. 9780070, p. 397323). New York: McGraw-Hill.

Ward, A. D., Trimble, S. W., Burckhard, S. R., & Lyon, J. G. (2004). Environmental hydrology (Vol. 464). Florida^ eBoca Raton Boca Raton: Lewis Publishers.