

COURSE TITLE:

## APPLIED HYDROGEOLOGY

COURSE DESCRIPTION:

The Applied Hydrogeology introduces students into transient phenomena of groundwater fluctuations, barometric and tidal efficiency. The course encompasses knowledge on geohydrology and geophysical methods of groundwater research. It focuses on groundwater extraction, pumping tests (Thiem, Thiem–Dupuit, Theis, Cooper–Jacob methods). The course prepares students for field work in hydrogeology.

LITERATURE:

Brassington, R. (2007): Field Hydrogeology (3rd edition), John Wiley and Sons, ISBN: 0-470-01828-3, 1-276.

Fetter, C. W. (2001): Applied Hydrogeology (4th Edition), Prentice Hall New Jersey, ISBN: 0130882399, 1-598.

Freeze, R. A. and Cherry, J. A. (1979): Groundwater, Prentice Hall New Jersey ISBN: 0-13-365312-9, 1-604.

TEACHER:

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