



Technische Universität Berlin

Chair of Water Resources Management and Modeling of Hydrosystems

Prof. Dr.-Ing. Reinhard Hinkelmann



in cooperation with:

Ingenieurgesellschaft Prof. Dr. Sieker mbH, Hoppegarten

Hon.-Prof. Dr.-Ing. H. Sieker

Announcement of lecture in WS 2023/24

Water Resources Management

Start: 18 October 2023 at 10:00 am in room TIB13b 566

Water Resources Management deals with *utilization* of water resources and *protection* against water including aspects of *water quality*, *ecology* and *economy*. Design and operation of water resources systems is increasingly oriented from conventional to *sustainable solutions* using new possibilities of *digitalization*.



The lecture teaches statistical methods, hydrological modeling techniques, reservoir and flood risk management, water pollution control and river rehabilitation in the context of multi-criteria-assessment and the EU-Water Framework Directive.



The lecture comprises 6 ECTS and consists of 2 parts:

- 9 integrated lectures (4 x 45 min each) in the first half of the semester
- one-week short course “Modeling in Water Resources Management” in the second half of the semester

The module *Water Resources Management* is an elective compulsory lecture (Wahlpflichtmodul) in the competence field Hydrosiences in the master program *Civil Engineering*. It also can be chosen as a basis lecture (Basisfach) for other competence fields or as elective lecture (Freie Wahl). It can be chosen as an elective lecture (Ergänzungsfach) in the master program *Environmental Technology* and as an elective lecture (Wahlpflicht-Kernfach-bezogen, Ingenieurfach) in the master program *Geotechnology*.



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