# **List of Lectures**

The study program Water Engineering informs about courses, professors, news and events related to this course for international students. For our lectures e-learning systems have been set up at elearning for environmental hydrologists. Watch out at the bottom of each teaser text for each lecture.

## Master Environmental Engineering

## **Hydrological Engineering**



The course introduces principles and methods of sustainable water resources management for the Master Water Engineering. The course includes water resources

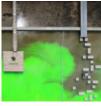
assessment and the necessary hydrological background on processes and water restoration of aquatic systems and water

balances, integrated water resources assessment, flood and drought risk assessment, course introduces the use of Python for management and mitigation and planning for environmental hydrology.

Notes on Sustainable Water Management

## Advanced Study Courses

## **Tracer Hydrology**



The course on tracer hydrology introduces the principles of the use of tracers in hydrology. Environmental tracers and artificial tracers are presented, methods of applying them for

hydrological studies, interpretation and modeling. The lecture is offered as a block course at TU Darmstadt.

## Simulation and Modeling



The master course includes modeling of water quality, transport modeling in rivers and lakes, groundwater flow and transport modeling, solute transport in aquifers for the

engineering with corresponding techniques. The hydrological modeling.

#### Environmental Tracers



The course introduces and demonstrates environmental isotope field techniques with sampling, monitoring, analysis and interpretation. Analysis of recharge and solute transport are

presented. Course announcements are given on our news page. Participants can access notes of the lecture, slides, links and videos here.

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