Research

Bachelor and Master Theses in Water Engineering

Master Theses in Environmental	Bachelor Theses for Civil, Environmental and Water
Engineering	Engineers
Several master theses can be realized in ongoing projects.	Several master theses can be realized in ongoing projects.
 Groundwater Recharge of Samos	 Hydrochemical Processes associated
Island, Greece - Factors and Response	with groundwater salinization on
to Extremes Extreme flooding on Samos Island	Samos Island, Greece Hydrochemical analysis of surface
Greece - Causes, Mechanisms and	groundwater interaction of a lowland
Mitigation Impact of Mega-Droughts on Rivers,	river Hydrochemical analysis of surface
Springs and Groundwater on Samos,	groundwater interaction of a lowland
Greece	river

Research Topics

Hydrology and Water Quality

Processes studies and assessment of water quality, flow and solute transport modeling in different environmenal compartments. Tracers, hydrochemical and compartmental modeling, and other models of environmental flow dynamics are derived from hydrochemical and isotope data.

Enhanced Monitoring

The research addresses new monitoring and modeling approaches, improved monitoring devices and techniques as well as their efficient operation, methods for data analysis and programming including AI.

Hydrological Modeling

for remediation, flood control, retention and recharge mangagment.

Hydrological Engineering

We work continuously on developing new aspects of hydrological engineering.

- Water Engineering Solutions -Enhanced Nutrient Recycling in Hydrological Basins
- Water Engineering Solutions -Adaptive Drainage Systems for a **Changing Environment**
- Water Engineering Solutions -Adaptive Management of Alluvial Aquifers

Secure and Sustainable Access to Water

Modeling and design of ecohydrological systems The objective is to quantify environmental and socio-economic factors and derive indicators for access to water.

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