COURSE DETAIL

URBAN ECOHYDROLOGY
Country Germany
Host Institution Technical University Berlin
Program(s) Technical University Berlin
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Urban Studies Environmental Studies
UCEAP Course Number 106
UCEAP Course Suffix
UCEAP Official Title URBAN ECOHYDROLOGY
UCEAP Transcript Title URBAN ECOHYDROLOGY
UCEAP Quarter Units 5.50
UCEAP Semester Units 3.70

Course Description

The urban ecohydrology contains a theoretical part which comprises all aspects related to the urban water cycle including urban rainfall pattern, water availability, groundwater recharge, urban rivers and drainage (traditional and sustainable approaches), urban waterscapes and alternative perspectives for water in cities, and the specific requirements for urban green including urban rainwater gardens, green roofs and facades and aspects of water shortage and heat stress on urban green conditions. Specific requirements of mega-cities and urban areas in developing countries will be assessed. In a practical part of the module, students will learn how to use simple modelling software for the calculation of greywater use and for the configuration of sustainable drainage systems including sustainable rainwater management. In the excursion part, students will get the chance to visit and study different elements of urban water, including e.g. excursions to a sewage treatment plant, the implementations of the water framework directive for urban rivers, integrated rain and grey water management of office blocks, and green wall installations (excursions will vary according to the availability of invited guides).

Language(s) of Instruction
English

Host Institution Course Number
61101

Host Institution Course Title
URBAN ECOHYDROLOGY

Host Institution Course Details
https://moseskonto.tu-berlin.de/moses/modultransfersystem/bolognamodule/beschre...

Host Institution Campus

Host Institution Faculty

Host Institution Degree
Host Institution Department Institut für Ökologie
Course Last Reviewed 2022-2023

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