

URB-01 Introduction to urban hydrology

- Objective:** The participants will achieve an overview of impacts of urbanization on hydrological processes, and hence urban stormwater quantity and quality, urban storm drainage, and general concepts of urban stormwater management
- Contents:**
- Impacts of urbanization on urban micro-climate and hydrology, intensity-duration-frequency analyses of rainfall data for urban storm drainage design, selection of design storm and hydrologic risk
 - Rainfall-runoff relationships and modelling
 - Impacts of urbanization on stormwater quality; stormwater quality characterization; impacts of stormwater pollution on receiving waters
 - Urban storm drainage design, local design standards, regulations and procedures
 - Sustainable urban stormwater quantity and quality management; sustainable drainage system (SUDS) and best management practices
- Who should attend:** Planners, engineers, technical managers and others from the public and private sector in need of an introduction to the subject
- Courseware:** Selected slides and background documents as handouts and/or electronic files
- Certification:** Attendance certificate (subject to 80 percent attendance)
- Duration:** 4 lessons (2 hours each) plus some homework
- Schedule:** (Please enquire)
- Costs:** \$ 500 per participant (inclusive of GST)
A discount of 20 percent applies to 3 or more participants from the same organization in the same course
- Instructor:** Shuy Eng Ban, Associate Professor at the School of Civil and Environmental Engineering at NTU. His current areas of interests include urban stormwater quantity and quality management, applied hydrology and water resources engineering, open channel and pipe hydraulics, pipe network surge analyses and control
- Enquiries and registration:** DHI Water & Environment, tel. 6777 6330, e-mail: info@dhi-ntu.com.sg