

URB-02 Statistical hydrology

Objective:	The participants will achieve an overview of tools for statistical analysis of hydrological time series, and an impression of their applications and limitations, together with some hands-on experience
Contents:	<ul style="list-style-type: none">Hydrological data and their origin; data quality in terms of accuracy, resolution, validity, and transparency (documentation); time and length scales; time series; distribution modelsCorrelations; gap filling; trends and time evolutions; identification of discrete events; extreme value analysisExtrapolations, generalizations in time and space; empirical data and cause-effect relations; predictions; data summaries; communication of findings and assumptions madeSynthetic data: Examples, generation techniques, applications
Who should attend:	Engineers and others from the public and private sector with prior basic knowledge about statistics and/or hydrology
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) <i>A discount of 20 percent applies to 3 or more participants from the same organization in the same course</i>
Instructor:	Tan Soon Keat, employed at NTU since 1984, and Director of its Maritime Research Centre since its inception in 2001. His research interests include GIS applications in water resources, numerical simulation of flow for hydraulics and coastal engineering applications. Dr Tan also provides consultancy services within surge analysis, drainage and hydraulic design, and modelling of hydraulic and coastal processes
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