

COAST-10 Formula assessment for sediment transport modelling

- Objective:** Uncertainties in sediment transport modelling are closely associated with applications of various empirical formulas. This course will give a general overview of relevant empirical formulas available in the literature
- Contents:**
- Fundamentals of hydraulics; sediment characteristics; dimensional analysis; flow resistance
 - Settling velocity; critical flow condition for sediment erosion
 - Sediment transport functions; bedload; suspended load
- Who should attend:** Professional (administrative or technical) staff from public or private sectors with an interest in hydraulics, river engineering or coastal engineering
- Courseware:** Selected slides and background documents as handouts and/or electronic files
- Certification:** Attendance certificate (subject to 80 percent attendance)
- Duration:** 3 lessons (2 hours each)
- Schedule:** (Please enquire)
- Costs:** \$ 400 per participant (inclusive of GST)
A discount of 20 percent applies to 3 or more participants from the same organization in the same course
- Instructors:** Nian-Sheng Cheng, hydraulic engineer (MSc, PhD), associate professor, School of Civil and Environmental Engineering, NTU, with previous appointments at Nanjing Hydraulic Research Institute, China, and Technical University of Denmark. As a specialist in hydraulics and sediment transport, he has conducted research and practical projects in the areas of hydraulic, river and coastal engineering, sediment transport, and turbulence and/or
Lim Siow Yong, associate professor, who received both his bachelor and doctoral degrees from University of Liverpool, UK. He joined NTU in April 1991. His research and consulting works cover fluvial, hydraulic and water resources engineering, particularly in mechanics of sediment transport, scour and scour control, and open channel flows. He has published 36 papers in refereed journals and 32 conference papers
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