

COAST-02 Sediment transport and morphology

Objective: Management of sediment processes - erosion and siltation - are sometimes decisive to operation and maintenance costs, and hereby, sometimes, to the feasibility of a planned project. The participants will achieve an introduction to sediment transport processes and to prediction of coastal erosion and sedimentation

Contents:

- Erosion and transport mechanisms; wind, waves, wave currents, ocean currents, tidal streams; inlets and estuaries
- Origin and characteristics of sediments
- Transport rates and mass budgets for sediments; analytical and numerical methods; examples
- Siltation in harbour basins and navigation channels; coastline erosion and accretion; causes and effects; impacts of changed flow patterns; control, mitigation, maintenance

Who should attend: Engineers and technical specialists from the public and private sector with a 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: 3 lessons (2 hours each)

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

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