M-02 Multi-criteria decision support, scenario analysis and optimization

Objective:	Structured and transparent multi-criteria decisions are useful for example in policy analysis, planning, design, and EIA. The participants will achieve an introduction to different concepts and models for complex but structured decision-making
Contents:	• Types of decisions; technical/economic rationality • Basic cost-benefit analysis; multi-criteria decisions • Scenario analysis; Pareto optimization • Cash flows, inflation and before- & after-tax analysis • Retirement analysis and replacement analysis • Assumptions and sensitivities
Who should attend:	Planners, 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:	5 lessons (2 hours each) plus some homework
Schedule:	(Please enquire)
Costs:	$ 600 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:	Po-Han Chen (NTU), civil engineer, educated in construction and project management (MSCE, PhD), employed at NTU since 2001, presently serving as its MSc (Maritime Studies) Program Director. Specialized in IT applications, artificial intelligence, project optimization, engineering economics and finance, and project planning and control, he has been involved in several training programs and a number of short courses
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