

PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE
COLLEGE OF ENGINEERING
DEPARTMENT OF TRANSPORT ENGINEERING AND LOGISTICS
ABET COURSE SYLLABI

ICT3113 SOCIAL EVALUATION OF PROJECTS

Credits and contact hours:	10 UC credits / 10 hours (3 h. Lectures; 1,5 h. Assistantship; 5,5 h. Independent learning experiences)
Instructor's name:	Luis Rizzi / Marco Batarce
Course coordinator's name	Luis Rizzi
Textbook:	Dasgupta, A.K. and Pearce, D.W. (1971) Cost-benefit Analysis: Theory and practice. London, Mcmillan Press.
Course Catalog Description:	Groups of three / four students must do a social cost-benefit analysis of an infrastructure project. Students have to propose different project alternatives and evaluate each of them. They have to make use of concepts and methodologies learnt in course of their specialization to proceed with the demand, cost and externalities analyses.
Prerequisite Courses:	ICS2523 Microeconomics and 450 credits
Co-requisite Courses:	None
Status in the Curriculum:	Required Crr2009
Course Learning Outcomes:	<ol style="list-style-type: none">1. Apply social cost-benefit analysis concepts.2. Define technically an investment project with social impacts.3. Evaluate technically and economically a project from both the private and social perspective.4. Present and communicate technical information.5. Team working.
Relation of Course to ABET Criteria:	<ol style="list-style-type: none">b. Design and conduct experiments: analyze and interpret datac. Design a system, component, or processd. Multidisciplinary teamse. Identify, formulate, and solve engineering problemsf. Professional and ethical responsibilityg. Effective communicationh. Broad education necessary for global, economic, environmental and societal contexti. Recognition of the need for, and an ability to engage in life-long learningj. Knowledge of contemporary issues

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k. Techniques, skills, and modern tools for engineering practice.

Topics covered:

1. Public goods and externalities.
2. Social Valuation of private goods.
3. Social Valuation of non-market goods.
4. Social rate of discount and capital shadow price.
5. Uncertainty in public investments.
6. Damage approach.