

# Module Card

Master Resource Efficiency in  
Architecture and Planning  
HCU Hamburg

Module Number	Module Name	Type (C/CE/E)	Semester (proposed)	Module Coordinator
REAP-M-Mod-305	<b>Decision Support and Project Evaluation</b>	<b>CE</b>	<b>3.</b>	<b>Prof. Irene Peters</b>

Subject Area	Duration
Resources, Institutions and Instruments	1 semester

CP (according to ECTS)	Contact Hours/Week (SWS)	Self-study
5 CP (= 150 h workload)	2 (= 21 h contact time)	129 h

## Objectives and Contents

### Objective of Qualification (competencies)

For students to be able to understand, to critically appraise and to perform simple versions of ex-ante and ex-post decision support and project evaluation studies along different methodological lines, like

- Cost-Benefit Analysis,
- Decision Analysis,
- Logical Framework Technique

### Contents

- Economic cost-benefit analysis: theoretical foundations (in economics). Essential elements such as different accounting frameworks (financial and economic accounting), valuation of intangibles, shadow pricing.
- Decision Analysis: theoretical foundations (mainly elements of decision theory)
- Logical Framework Technique for Project Evaluation

The emphasis on individual methods may vary between different years. However, theoretical elements common to all of these methods (uncertainty and its valuation, the issue of monetization vs. refraining from monetization; aggregation over different decisionmakers) will be addressed in any case. For each method discussed, case studies will be presented to illustrate the working of these concepts in practice.

### Recommended Literature

Ackerman, Frank (2008). *Can We Afford the Future? The Economics of a Warming World*. London: ZED Books.  
Further literature will be given prior to seminar.

### Teaching and Learning Methods

Seminar (incl. seminar discussions and individual student inputs for specific subjects ) (2 SWS)

## Exam(s)

### Precondition of Examination

regular participation and one or more of the following: Successful completion of several small homeworks, student report, oral presentation, take-home written exam

Type of Examination	Duration of Examination (if written or oral exam)
S (Homeworks during lecture time) or R (student presentation incl. a written version thereof)	

### Composition of Module Mark

Exam grade

## Additional Information

### Previous Knowledge / Conditions for Participation (in form and content)

Knowledge of mathematical methods at O-Level exams or General Certificate of Secondary Education (Calculus: Differentiation and Integration)

### Applicability of Module

Students have to select 2 modules of the block "Resources, Institutions and Instruments" to attend REAP-M-Mod-309 Project III.

### Frequency of Offering

Each winter term

### Course Language

English

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