FH MÜNSTER
University of Applied Sciences

MSA FB Architektur
Münster School of Architecture

Photo: Edge Techologies, Grand Central Berlin

Master

Winter 23/24

ma.wm.1 Elective Module

course

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lecturer

Calculation of life cycle costs and sustainability (practical p

title

The life cycle costs of buildings consist of approx. 20% of building construction costs and 80% of building usage costs. Several federal states require a LCC calculation as binding proof for the release of the building project. Knowledge of the LCC calculation for architects is therefore required.

The optimization of future building utilisation costs is of great, special importance. In many architectural competitions, proof of the usage/life cycle costs and sustainability is already required today.

In the seminar, a calculation of the building usage costs will be carried out using an example of and the effects were made clear. In a group work then the calculation paths for each cost type are worked out and presented. At the end of the seminar you will be familiar with the calculation methods for determining the life cycle costs.
Sustainability is introduced into the course using the SNAP process.

topic

Literature and source references in the seminar
DIN 18960
Kriteriensteckbriefe (criteria profiles) DGNB and BNB
IG Lebenszyklus Bau
fm.benchmarking 2023
SNAP
Various publications

recommended reading