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OUTDOOR COMFORT AND MICROCLIMATE

Module Energy Design

C26 IN-DEPTH MODULE

This module is part of an ongoing collaboration with BIG/ ARE and part of a STUDENT COMPETITION which is financially supported by ARE with generous prizes. Students who participate in the module are automatically registered for the competition. Prizes are awarded at the end of the academic year based on evaluation by an independent jury.

In an ever-warmer climate, one of the challenges facing society today is how to design urban outdoor spaces in order to promote health, well-being, and the social encounters so vital to human life in our cities. How can we improve comfort and liveability in outdoor spaces without contributing to the vicious cycle of energy use causing carbon emissions, ever-increasing atmospheric temperatures, urban heat island effects, and more warming? Vegetation, water areas and shading are important elements to create comfortable microclimatic conditions in summer. However, the design of outdoor spaces is also about creating places that are well-sunlit in winter and sheltered from the wind. In this course, the focus is on creating favorable microclimatic conditions for outdoor comfort, using design strategies for building form, urban design configuration, orientation, development of building height, landscape design and active measures.

The design task "F7 Aspern" is a real-life urban planning task currently being prepared for a design competition. The aim is to improve the year-round usability of the project's outdoor zones both on the project site and in the immediate surrounding areas by appropriate design strategies and concepts. The focus is less on the design of the buildings and more on the design of the spaces in-between.

REGISTRATION

Wednesday
01. March, 17:00

LV 159.781

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WITH

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