

The course "Membrane Structures" deals with the design and analysis of structural membranes, including the application of numerical simulation tools. The plugin Kiwi!3d is introduced for parametric CAD-integrated lightweight design.

Main topics:

What are structural membranes and how do they work?

How do we design and analyse membranes?

What challenges do we encounter in lightweight design?

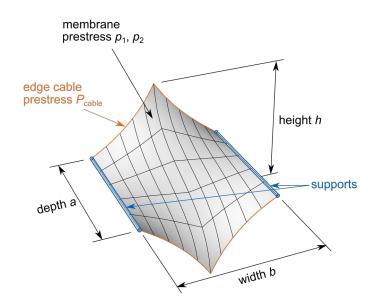
How does CAD-integrated design and analysis work and what are the benefits?

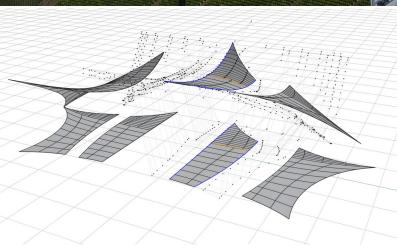
A design project will be carried out in small teams, using the knowledge and tools from the lectures. The project will be evaluated for the final grade.

Dates: 4.11.2022; 25.11.2022 + 2 more days in 2023 tba













The design cycle of membranes

