

# ENTWERFEN STADION GRAZER AK

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## Design - Project WS 23/24 Title: Stadion Grazer AK

### A UEFA Category 3 football stadium for the Grazer AK club

Stadiums are not only centres of sport and meeting places for sports enthusiasts, but are also part of the architectural and cultural identity of a city.

The Studio for Structural Design in WS 2023/2024 is dedicated to the design and detailing of a football stadium for at least 10,000 visitors.

The project is topical due to the planned handover of the stadium in Liebenau to SK Sturm Graz and the simultaneous need for a home ground for Grazer AK. After research and studies on stands, access, entrances and roofing, the focus of the studio will be on the development, review and detailing of the roof structure, which will be statically verified using the RFEM software.

The design will be worked on in teams of 2 or individually.

**Recommended elective:** 140. 905 SE Structures and Resource Efficiency

The following points will be worked on during the semester:

- Analysis of existing stadiums
- Study of stands and pitch arrangement
- Study of accesses and development
- Study of roofing- Architectural conception

- Structural design:
  - Design - Function - Construction - Details
  - RFEM

- Representation and modelling

**Excursion:** Stadium visit expected in November

optional: 12.11.2023 Hoffmann Personal Stadium Linz: FC Blau-Weiß Linz vs. LASK