

## GRADUATE CENTRE FOR THE STUDY OF CULTURE OF THE JUSTUS-LIEBIG-UNIVERSITY Gießen (Germany)

### NEW BUILDING

- Client:** State of Hessen represented by  
Hessian Ministry of Finance represented by the  
State Office for Construction and Real Estate Hessen,  
branch office middle in coordination with the  
Hessian Ministry of Science and Art
- Architects:** ARGE GCSC  
Meurer Generalplaner GmbH, Frankfurt a.M.  
a+a architecture et aménagement s.a.
- Our services:** Structural design  
Preliminary design  
Final design  
Approval documentation  
Execution drawings  
Preparation of contract award  
Structural fire protection  
Structural analysis fall protection for  
railings and facade
- Brief description:** Construction of a new institute and administration building  
with project and seminar rooms and office space on the  
campus of cultural and liberal arts
- 5-storey reinforced concrete skeleton structure,  
support grid of 5,4 x 5,4 m
  - effective area of 2,160 m<sup>2</sup> (NF1-7)
  - high water table influencing the construction  
of the foundations
  - load-bearing layers of soil on different levels,  
partially compensated using lean concrete
  - shallow strip and point foundations using  
impermeable concrete
  - stiffening via walls and 2 stair wells
  - flat slabs spanning up to 6,75 m
  - airspace through all floors in the centre of the building  
with a ground area of 5,4 x 8,1 m ending in a skylight
  - representative inner single steel platform flight of stairs  
of 8,1 m in length in the access area
  - on ground floor representative steel staircase as a folding plate
  - column-free conference room on the ground floor,  
hence stabilising through the first and second floor
  - stabilising through wall-like trusses lead  
over two floors (load diversion)
  - slab in conference room spanning up to 10,8 m
  - plant room on the roof built as a light-weight  
construction
  - light-weight partition walls for flexible  
utilisation of space
  - external masonry with integrated insulation
  - fibre concrete facade
  - porticos and loggias integrated into the building
  - green roof with photovoltaics system

**Completion:** 2021

