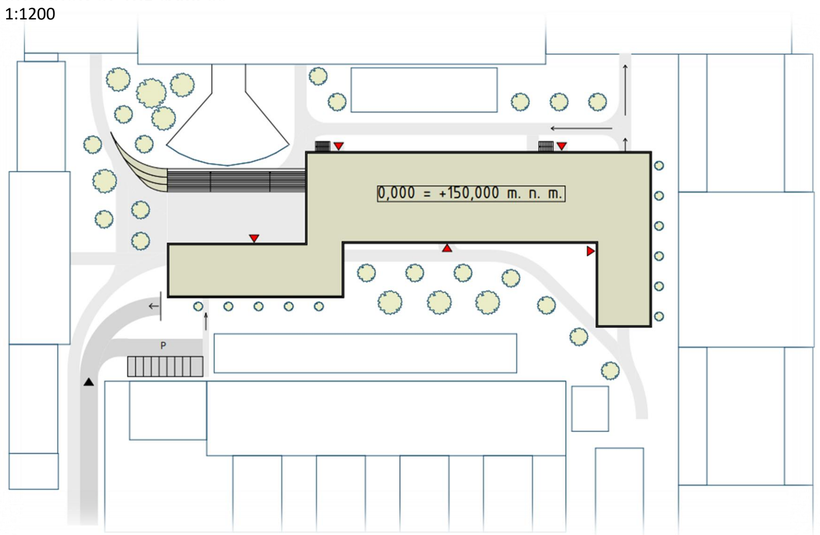
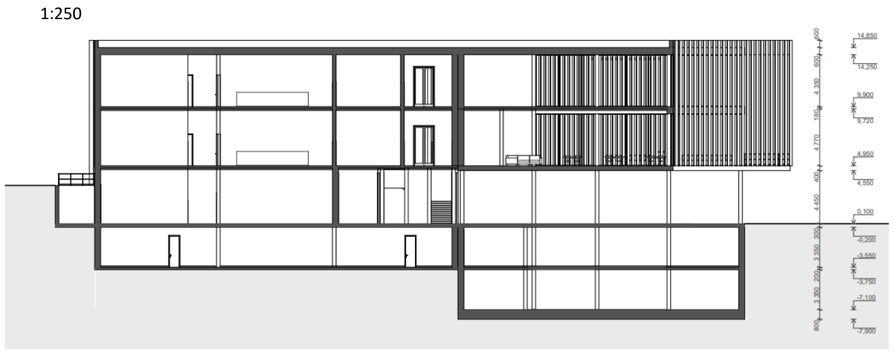
CAMPUS STU
BRATISLAVA

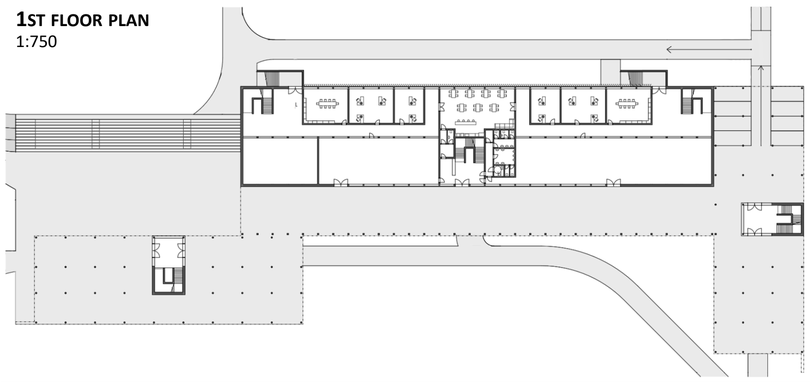
SITUATION OF THE CAMPUS
1:1200



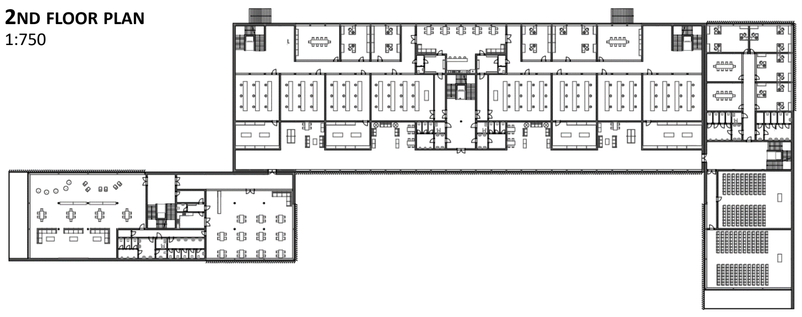
CROSS-SECTION
1:250



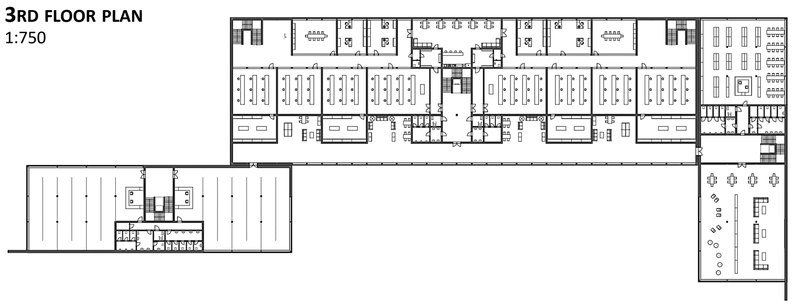
1ST FLOOR PLAN
1:750



2ND FLOOR PLAN
1:750



3RD FLOOR PLAN
1:750



PURPOSE OF THE CONSTRUCTION
The task was to design the renovation of the courtyard of the Slovak Technical University in Bratislava. The idea should include improving the current state of the courtyard, which is in poor condition. Some of the existing buildings need to be rmoved. The only preserved construction will be the building of heavy laboratories. Student life and connection with the public is also an important factor in designing. Therefore, in my project, I also emphasize the exterior and its use for the stay of visitors.

URBAN AND ARCHITECTURAL SOLUTIONS
The solved area is located right in the center of Bratislava and in the vicinity we can find many important and distinctive buildings, such as the Presidential Palace. In the urban solution, I focused mainly on free movement in the courtyard and so that this space can also be used as a passage for a possible shortening of the route. I preserved the three existing entrances to the courtyard and connected the communication routes to them. The first architectural idea was just the free flow of space. I imagined a stream of wind moving in the area and copied its imaginary movement. At the same time, I wanted to preserve the orthogonal character, and so the mass appearance of the designed building was created, with the fact that heavy laboratories are preserved. The whole process can be done in three stages. First, renew and modernize the middle part connecting to the heavy laboratories and then arbitrarily complete the remaining two parts as needed; Educational spaces or Social spaces. In total, the building has five floors; two underground and three above ground. Due to the slightly increasing terrain, part of the first floor is sunk into the ground. Last but not least, I also designed outdoor spaces for students, professors or other visitors. I also adapted the greenery and created at least some order that was missing in its original form.

DESIGN AND MATERIAL SOLUTIONS
The whole building is solved by a skeletal system. The foundations are solved by the load-bearing perimeter wall and the new structural units are dilated. In heavy laboratories, the original skeletal structure is preserved and the new units are designed in a 6x6 m grid. The columns have a size of 400x400 mm. The building is equipped with reinforced concrete stiffening cores, which also serve as communication cores. A green roof is designed to maintain a pleasant climate. Due to the relatively large glazed sufaces, I supplemented the facade with shielding lamellas, which are partially translucent.

FUNCTION SOLUTION
In the case of heavy laboratories, their function is partially preserved, and the STU Innovation Center, research, educational and administrative premises, is then designed on the higher floors. The student part of the building can be reached through the communication core of heavy laboratories or through a direct entrance from the outdoor area. Here we find lecture rooms, offices for teachers, a library, but also a social space. The third part of the building, intended for the public, also has its own communication core and includes a small café or snack bar, a common room and exhibition spaces for the science presentation center. In the exterior, both covered and uncovered residential stairs are designed. These spaces can be used for social events, screenings, or lighter sports activities. There will also be calmer places for a pleasant study. There are about 340 parking spaces in the underground area.

AREAS
Land area: 19,020 m²
Built-up area: 4,770 m²
Floor area: 27,690 m²

Created by Petra Čížková