

Plan of Investment Projects to Be Implemented by TBU in 2020

Plan of Construction Projects (Thousand CZK)

	Project	TBU Investment resources	TBU Non-investment resources	Grants - investment resources	Grants - non-investment resources	Total
	Implementation of strategic projects:					
01	General renovation of the U1 building	0	4,720	0	0	4,720
02	Renovation and modernization of the U7 building	67	18,598	0	12,000	30,665
	Implementation of prioritized projects:					
21	Renovation and modernization of the U2 Assembly Hall in the Academia Centre	0	12,356	0	0	12,356
22	Optimization of the fire alarm system to be used in buildings	0	3,500	0	0	3,500
23	Renewal of technological equipment situated in buildings older than 15 years	0	3,500	0	0	3,500
24	Renovation of construction parts of buildings older than 15 years	3,000	500	0	0	3,500
25	Optimization of power consumption	0	1,000	0	0	1,000
26	Re-development of the Fénix club aimed at building a workshop and servicing facility for the Technical Services department	1,300	2,440	0	0	3,740
27	Water supply and sewage disposal in the U8 building	0	1,330	0	0	1,330
28	Renovation of the fire alarm system and electrical installations in the U2 building	0	495	0	0	495
29	Library – Renovation of the turnstile system in the TBU Library	0	700	0	0	700
	Implementation of other projects:					
31	Minor construction projects	0	1,500	0	0	1,500
32	Dealing with emergency situations in TBU buildings	500	500	0	0	1,000
33	Comprehensive solution to requirements regarding technological equipment	750	750	0	0	1,500
34	Elaboration of studies, reviews, research for construction projects	500	500	0	0	1,000
	Projects funded by component parts:					

91	HRR – Renovation of the eastern part of the 2 nd , 3 rd , 4 th above-ground floor of the U12 building	141	464	0	0	605
92	Library – Renovation of the access and protection system of the TBU Library	0	650	0	0	650

Detailed information on strategic projects:

The project entitled “**Complete Renovation of the U1 Building**” has been accepted for funding by the sub-programme 133D 22R “Development and Renovation of Material and Technical Facilities of Tomas Bata University in Zlín” (see the document sent by the MEYS Ref. No. MSMT-19762/2018-5).

After more than 85 years of intensive use (the FT has been residing in the building since 1969), the building shows considerable wear and tear of the interior structural and technological equipment; technological utilities located in the building are beyond the service life limit.

At first, a complete renovation and modernization of the U1 building including a comprehensive modernization of both operating and technological parts of the building was planned.

In 2019 extensive static analyses of horizontal supporting structures were carried out, with the following conclusion:

- The concrete frame reinforced with steel does not provide, as regards its conformity with the currently valid standards, a sufficient strength for the purpose of lateral load.
- Horizontal elements of ceiling structures (disks, ceiling beams and joists) fail to meet the requirements of the lowest strength class of concrete valid for concrete structures reinforced with steel; therefore, the currently valid standards cannot be applied for an assessment of the elements whatsoever.

The statement that there are no visible defects in the structure of the building can be only explained by the fact that the real variable load does not reach the required values and also by the fact that the reserves between the calculated and real strength of materials are used to the limit (the above-mentioned facts cannot, however, be taken into consideration during an assessment of conformity with the currently valid standards).

In accordance with the above-mentioned conclusion arising from the static analysis, the planned renovation would refer to a “consolidation” of the existing concrete structures reinforced with steel and their “subterranean reinforcement” with a brand new type of a steel structure able to hold the entire permanent as well as useful load of the building.

This option represents a considerable limitation to the technical usability of the building for the intended purpose (laboratories which are highly demanding as regards the required interior microclimate and house a considerable number of technological distribution systems), fails to generate the added value expected, is uneconomical and, as regards the technological aspects, very difficult and almost hazardous.

Currently, it is recommendable to check a possibility of a complete demolition of the building, and of a subsequent construction of a new building, either a “replica” of the existing U1 building (identical ground-plan area, preservation of size and modulation of the construction frame) or a building with a new design including elements of contemporary architecture, not influenced by the previous design

of the building, so that the building to be constructed is in accordance with the currently valid standards applied to teaching laboratories.

Accepted for funding by the sub-programme 133D 22R with a total amount of investment resources of CZK 237,158 thousand; however, no less than a double amount is expected to be required.

We expect to receive the funding for the project “**Renovation and Modernization of the U7 Building**”, i.e. for the construction, from the sub-programme 133D 221 “Development and Renovation of Accommodation and Catering Facilities at Public Higher Education Institutions”, with the expected acceptance for funding before the end of 2019.

The U7 building, a University Residence Hall, is owned by TBU and situated at the address Štefánikova 150, Zlín. After more than 50 years in use, the building shows considerable wear and tear of the interior equipment, with the technological equipment in use beyond the service life limit. The layout of the building with shared sanitary facilities situated on each floor is entirely outdated. The goal of the plan is to build a functional, modern and aesthetically pleasing accommodation facility which will comply with current and future user standards in accommodation. The new layout concept will feature accommodation units with built-in sanitary facilities and a kitchenette. The project scope is a complete renovation of the building including a comprehensive modernization of the interior equipment. The project also involves a system of fire alarm and safety measures to be applied in the building in compliance with the currently valid legislation and adaptation of the building so as to enable access of special needs persons.

TBU has obtained a valid building permit for the construction project, and owns the project documentation created for the construction to be carried out as well as the project documentation created for the interior.

The actual implementation of the construction project is planned to take place in the period from 15 June 2020 to 31 August 2021.

Funding of the project shall be provided at a 60:40 ratio (programme funding : funding provided by TBU).

Plan Listing Machines and Equipment to Be Purchased (Thousand CZK)

	1100/Fund for Maintenance of Investment Property	Development of research organization	OP RDE	Others
Faculty of Technology	6,000	8,000	4,000	0
Faculty of Logistics and Crisis Management	0	0	0	0
Faculty of Applied Informatics	2,500	4,000	3,000	0
Faculty of Multimedia Communications	1,000	0	0	0
Faculty of Management and Economics	1,000	0	0	0
Faculty of Humanities	0	0	0	0
University Institute	0	1,000	0	0
TBU Library	0	0	0	0
Halls of Residence and Refectory	1,630	0	0	0
TBU Rectorate	3,500	0	0	0