

IT Equipment for the IT Laboratory at FCIM TUM

1. Workstation with accessories. Technical specifications for minimal parameters:		Number of pcs
1.1. Workstation;		11
Processor model:	Intel Core i7-9700 (8/8, 12MB Cache, 3.0GHz) (BNCH-13569b)	
Memory details:	16+16GB DDR4 2666MHz	
Storage capacity:	SSD 512GB	
Graphics card:	Intel UHD Graphics 630	
Optical drive:	DVD-RW	
Ports on the back:	USB 3.1 / LAN / RS232 / DisplayPort 2x	
Front/side ports:	USB 3.1 / USB 3.1 Typ-C	
Operating system:	Windows 10 Pro 64-bit	
Material:	black aluminium / tower	
Warranty:	2 years (minimal)	
1.2. Monitor; technical specifications:		11
Model:	29" LG 29UB67 Ultrawide – LCD monitor	
Display resolution:	Full HD 2560 x 1080 px	
Panel type:	IPS	
Aspect Ratio:	21:9 wide-angle	
Response time:	5 ms	
Brightness:	300 cd/m2	
Connection type:	DisplayPort, DVI, HDMI 1.4	
Other connections:	Headphone output, USB 3.2 Gen 1 (USB 3.0)	
Features, functions:	Adjustable height, Pivot, Speakers	
1.3. Keyboard; technical specifications:		11
Model:	Dell KB-2016 black US International	
Usage:	office	
Connection, interface:	wired, USB	
Key type:	chiclet	
Localisation:	American	
Colour:	Black	
1.4. Mouse; technical specifications:		11
Model:	Preferably Logitech or Dell	
Usage:	office	
Connection, interface:	wired, USB	
Sensor:	3 200 DPI, optical, 0,98 ms	
Backlighting:	Monochrome	
Colour:	Black	
1.5. Webcam; technical specifications:		11
Model:	GENIUS QCam 6000 black	
Video resolution:	Full HD 1080P	
Connection:	USB2.0	
Features:	built-in microphone	
Supported OS:	Windows 7/8/10	
1.6. Headphones; technical specifications:		11
Model:	Logitech Stereo Headset H111	
Microphone:	yes	
Connection, interface:	wired, 3,5mm	

2. Server and accessories. Technical specifications for minimal parameters:		Number of pcs
4.1. Server; technical specification:		1
Processor model:	Intel Xeon E-2224 3,4GHz 4C	
Model:	HPE ProLiant DL20 Gen 10	
Memory details:	16GB DDR4 (optimal)	
Processor frequency:	4,7 GHz	
Optical drive:	without	
Cabinet size:	Rack	
Operating system:	without	
Warranty:	2 years	
4.2. Server disk, technical specification:		2
Model:	HPE 3.5" SSD 1TB SATA Hot Plug SC	
Use:	for servers	
Storage type:	SSD	
Format (Form Factor):	3,5"	
Storage capacity:	1 TB	
Colour:	black	
Consumption:	max. 2,5 W, typical 1,23 W	
4.3 Switch, technical specification:		1
Model:	TP-LINK TL-SG1048	
Type:	Rack, 19"	
LAN port transmission speed:	1 Gbit	
Packet capacity:	71,4 pcs	
RJ-45:	48 pcs	
Width:	440 mm	
4.4. Rack, technical specification:		1
Model:	19" RACK single piece 12U	
Cabinet size:	12U	
Colour:	black	
Dimensions:	60 cm x 59,4 cm x 44 cm	
4.5. Backup Power Supply UPS, technical specification:		1
Model:	APC Back-UPS PRO BR-650VA	
Actual performance:	390 W	
Apparent performance:	650 VA	
Power type:	Line interactive	
IEC 320 C13:	6	
Additional interfaces and protection:	Protection data network RJ-45, Protection telephone network RJ-11, USB	