



UNIVERSITÀ DEGLI STUDI GUGLIELMO MARCONI

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Object: Revision of the Equipment list – request of authorization to purchase
Agreement no. 617496-EPP-1-2020-1-IT-EPPKA2-CBHE-JP

Dear Dr. FLAMENT,

In reference to the above UNITEL project and according to the instructions received by email we are writing to ask for a revision of the Equipment list as initially planned.

The rationale of the revision refers to different factors:

Each Iranian University has asked for an individually-tailored equipment list since each Iranian University has a different starting point considering either the technological infrastructure or the distance learning's expertise.

The comprehensive revised list will allow each Iranian University to commit to carry on all the project activities related to the:

- Training Path development (WP2 UNI-TEL training path development/Milestones: UNI-TEL e-course and UNI-TEL virtual environment/Activities: 2.1, 2.2, 2.3, 2.4, 2.5) (WP3 UNI-TEL training delivery/Activities 3.2, 3.3, 3.4);
- Remote/virtual labs' implementations (WP4 UNI-TEL curriculum modernization/Milestone: modernized curricula/Activities: 4.1, 4.2, and 4.3).

Besides that, the revised list will allow to ensure a reinforcement of the technological infrastructure, the long-term impact on target group and finally, a long-term project outcomes' sustainability.

In agreement with the rationale stated in the Annex I, description of the action, the Equipment costs will be exclusively dedicated to PC HEI's and will involve specialized software licenses, laptops, video cameras, projectors and workstations for professors relevant for professional development of staff in the field of ICT-based curriculum building. The equipment list will include the equipment to install standard Multimedia labs within each PC HEI.

Please find here the list of equipment for each Iranian University that sent us the request of revision.



P5 Imam Khomeini International University (IKIU)		Updated list sent and confirmed - 31/01/2022				
Row	Item	Description	Qty	Price	Sub Total (€)	Justification
1	HP 15EF1013DX	HP 15.6" Laptop	5	866,66 €	4.333,30 €	
2	LOGITECH C720	Webcam	3	50,00 €	150,00 €	
3	Raspberry Pi 4	Raspberry Pi 4 (8GB Ram) + 5" LCD + Camera + Keyboard + Expansion Boards + Sensors	2	450,00 €	900,00 €	
4	Arduino Nano	Arduino NANO 33 BLE SENSE ABX00032a + LCD + Sensor Shields	3	250,00 €	750,00 €	
5	IntelliCo AI INT9511	Data Acquisition Module: 16-Channel, 24-bit, 100S/s/Ch, 0-5V, Analog Input with WiFi/USB Interface For Laboratory Sensors Analog Measurements	2	790,00 €	1.580,00 €	
6	IntelliCo AO INT9512	Analog Output Module: Dual-Channel, 12-bit, 100Hz, 0-5V with WiFi/USB Interface For Laboratory Analog Actuators	2	480,00 €	960,00 €	
7	IntelliCo DI INT9521	Isolated Digital Input Data Acquisition Module: 32-Channel Isolated 5V Inputs with WiFi/USB Interface For Laboratory Digital (On/Off) Sensors	2	640,00 €	1.280,00 €	
8	IntelliCo DO INT9522	Digital Output Module: 8-Channel, Relay Contact with WiFi/USB Interface For Laboratory On/Off (Binary) Actuators	2	445,00 €	890,00 €	
9	Amin HTRL HTR1395	Differential Mobile Robot (Dual Wheel), Distance Sensory, Ultrasonic, IMU, Compass, Barometric, Encoder, Magnetometer, Accelerometer, Servo mechanism	2	480,00 €	960,00 €	
10	Cisco WS-C2960S-48TS-L	48-Port Network Switches	1	332,00 €	332,00 €	
11	HP DL380 G9 E5-2620v3	HP Server with 128GB RAM, 2TB HDD	1	5.600,00 €	5.600,00 €	
12	Smartboard	GPlus GSB-65JB Smartboard	1	2.333,33 €	2.333,33 €	
13	Learning Software	Installation and support (moodle, BBB)	1	600,00 €	600,00 €	
14	LT90101IH	UPS and Batteries (10000VA)	1	891,00 €	891,00 €	
15	LOGITECH BRIO ULTRA HD PRO	Webcam	1	210,00 €	210,00 €	
16	MSI Pro 24X-H	All-in-one Desktop Computer	5	740,00 €	3.700,00 €	
				List Total	25.469,63 €	

- Implementation of the UNITEL Ecourse and Remote lab.
- Strengthening of the distance learning Technological infrastructure to ensure a long term's project outcomes sustainability

P6	, University of Sistan and Baluchestan (USB) Type and Description	Items total Cost	Updated list sent on 17/11/2021 confirmed email of 24-03		Row
			Item Unit Cost	Qty	
	Programming Remote Controlled Robot HGYYIO 6WD Motorized Robotics with WiFi Camera	€ 1.100,00	€ 550,00	2	1
	Logic Controller Kit Mini PLC, Programmable Power ,USB Interface & Automation w Software Supply	€ 600,00	€ 300,00	2	2
	Development Board for UNO R3 Based on ESPduino ESP8266 Wireless WiFi Communication and connectors and power supply kit	€ 300,00	€ 75,00	4	3
	ATmega328P Module +connectors and poer Helonge supply	€ 160,00	€ 40,00	4	4
	Supply Variable 30V/10A High Precision DC Power Adjustable	€ 300,00	€ 150,00	2	5
	Project Super Starter Kit with Tutorial ELEGOO UNO IDE and UNO R3 Compatible with Arduino	€ 300,00	€ 75,00	4	6
	Upgraded 37 in 1 Sensor Modules Kit with ELEGOO Tutorial	€ 250,00	€ 125,00	2	7
	Model B 2019 Quad Core 64 Bit WiFi 4 Raspberry Pi supply Bluetooth (4GB)+connectors and power	€ 130,00	€ 130,00	1	8
	Raspberry Pi 4 4GB Starter PRO Kit - 4GB Cana Kit RAM	€ 180,00	€ 180,00	1	9
	Development Board for Arduino and ADC Converter Raspberry	€ 70,00	€ 35,00	2	10
	Remote Desktop Licence	€ 1.000,00	€ 1.000,00	1	11
	HD ,8 Laptops Intel I7 10th gen, 16 Ram, graphic 1TB, Full HD, Touch and Pen	€ 3.200,00	€ 1.600,00	2	12
	Hardware Connecting Board	€ 4.600,00	€ 4.600,00	1	13
	AI-Powered PTZ Webcam OBSBOT Tiny	€ 700,00	€ 350,00	2	14
	Complete Recording Studio Package for Tascam Mac/Windows Computers	€ 1.000,00	€ 1.000,00	1	15
	Server: HP ProLiant ML350p G8 5U Tower - 1 x Intel Xeon E5-2670 v2 2.5GHz	€ 8.580,00	€ 8.580,00	1	16
	AX6000 WiFi 6 Router (Archer AX6000) - TP-Link G WAN 2.5 ,Wireless Router, 8-Stream WiFi Router Port, 8 Gigabit LAN Ports, MU-MIMO, 1.8GHz Quad-Core CPU	€ 900,00	€ 900,00	1	17
	CODESYS Control for Raspberry Pi SL (Software License)	€ 260,00	65,00 €	4	18

	Raspberry Pi Computer Module 4 Develop Kit	€ 180,00	45,00 €	4	For Digital control Remote Lab, is a companion board for Raspberry Pi Compute Module 4 (supplied separately). It is designed for use both as a development system for Compute Module 4 and as an embedded board integrated into end products.	19
	Raspberry Pi Computer Module 4	€ 230,00	115,00 €	2	For Digital control Remote Lab Raspberry Pi Compute Module 4 harnesses the computing power of the popular Raspberry Pi 4 Model B, bringing it to a smaller form factor suitable for integration into products.	20
	Raspberry Pi4 Computer Model B (Single Board Computer)	€ 360,00	90,00 €	4	Digital control Remote Lab Computing Device	21
	4 Cases for raspberry modules, 20 meters Cables, 8 power supply connectors, 4 extension Sockets, 1 Electric fuses and control Box	€ 300,00	€ 300,00	1	electrifying and safely switching of all devices in the server For Lab and cables and connectors remote room and	22
	Blue Iris (Video Security and Webcam Software)	€ 95,00	€ 95,00	1	control Remote Lab Blue Iris is professional-grade For Digital latest video software technologies, software incorporating the webcasting including MPEG and Windows Media	23
	presenter license 3 years/150 clients/ 5 Adobe concurrent classes	€ 1.000,00	€ 1.000,00	1	Platform for presenting the course to students E-learning	24
	Business SF302-08Mpp - Switch - 8 Ports Cisco Small SF302-) - Managed - Desktop, Rack-Mountable (08MPP-K9-NA	€ 250,00	€ 250,00	1	connection for e-learning and Remote Lab Server	25
	CPS1215RMS Rackmount Surge CyberPower ,Protector, 120V/15A, 12 Outlets, 15 ft Power Cord	€ 100,00	€ 100,00	1	connection for e-learning and Remote Lab Server	26
	Total Cost	€ 26.145,00				

revised list sent on 18/01/2022 Confirmed with email
21/03/2022

P7 Shiraz University (SU)							TOTAL	
Item	Description	Price(EURO)	Qty	Price(EURO)	Justification	Price(EURO)		
1	CODESYS Control for Raspberry Pi SL	50,00 €	5	250,00 €	Software License (CODESYS)			
2	Raspberry Pi Compute Module 4 IO Board, a Development Platform for CM4	35,59 €	4	142,36 €	Developer KIT			
3	Raspberry Pi Compute Module 4, Options For 8G RAM / 32G EMMC/ Wireless	99,66 €	2	199,32 €	Computer Module			
4	Raspberry Pi 4 Model B 8GB RAM	77,41 €	5	387,05 €	Single Board Computer with Sensors			
	Aluminium Alloy Case for Raspberry Pi 4, Dual Cooling Fans	8,00 €	5	40,00 €	Case		For Remote Lab Development	
5	Blue Iris Video Management Software	73,96 €	1	73,96 €	Software License			
6	OBSBOT Tiny AI-Powered PTZ Webcam	355,95 €	4	1.423,80 €	PTZ Camera			
7	Oculus Rift S Virtual Reality Headset	330,71 €	2	661,42 €	Virtual Reality Headset			
8	Oculus Platform SDK	100,00 €	1	100,00 €	Virtual Reality SDK			
9	Oculus Mobile SDK	100,00 €	1	100,00 €	Virtual Reality SDK			
10	HPE ProLiant DL380 Gen10 serverHPE ProLiant DL380 Gen10 4214 1P 128GB-R P816i-a 12LFF 800W PS Server	7.000,00 €	1	7.000,00 €	Server		For Local Host of Remote lab, Virtual lab, and related e-Contents/ecourse of the UNI-TEL Project	
11	The McGill Physiology Virtual Laboratory Simulators	2.000,00 €	1	2.000,00 €	Simulators A		For Virtual Lab Development	
12	REMOTE DESKTOP LICENCE	1.000,00 €	1	1.000,00 €			For the main host of Remote Lab and Virtual lab	
13	Hardware Connecting Board (for remote lab)	4.000,00 €	1	4.000,00 €			For Remote Lab hardware Develop	
14	UPS	200,00 €	2	400,00 €			For Local Server	
15	Switch, router, network accessories	1.500,00 €	2	3.000,00 €			For Remote Lab Networking Local	
16	Laptops for curricula development - 5 items	1.300,00 €	4	5.200,00 €			For Special e-Content tools ecourse UNI-TEL	
		TOTAL		25.977,91 €				

P8 University of Isfahan (UI)		confirmed email 13/04/2022		
Item	Unit Price in Euro	Qty	Total Price in Euro	Justification
HP DL360 G9 8SFF				
Intel Xeon E5-2690v4	998,26	1	998,26 €	Server for ecourses
64GB DDR4 RAM				
500W Power supply				
SSD card				
GSB-75JB	2663,04	2	5.326,09 €	Touch Smart Board for course presentation
OBSBOT Tiny AI-Powered PTZ Webcam	282,61	2	565,22 €	AI Webcam for course presentation
Mega 2560 R3 ATmega2560-16AU Board	25,22	1	25,22 €	Hardware for technological infrastructure
Workstations	743,04	5	3.715,22 €	Local computers for teachers: V241EPK-BA017M, 23.8 Inch, ASUS
Laptops	827,83	5	4.139,13 €	PC staff for e-course, ZenBook 14 UM425JA-AM035 14 Inch, ASUS
Software License (CODESYS)	50,00	5	250,00 €	CODESYS Control for Raspberry Pi SL
Developer KIT	35,59	4	142,36 €	Raspberry Pi Compute Module 4 IO Board, a Development Platform for CM4
Computer Module	99,66	2	199,32 €	Raspberry Pi Compute Module 4, Options For 8G RAM / 32G EMMC/ Wireless
Single Board Computer with Sensors	77,41	5	387,05 €	Raspberry Pi 4 Model B 8GB RAM
Case	8,00	5	40,00 €	Aluminium Alloy Case for Raspberry Pi 4, Dual Cooling Fans
Software License	73,96	1	73,96 €	Blue Iris Video Management Software
PTZ Camera	355,95	4	1.423,80 €	OBSBOT Tiny AI-Powered PTZ Webcam
Virtual Reality Headset	330,71	2	661,42 €	Oculus Rift S Virtual Reality Headset
Virtual Reality SDK	100,00	1	100,00 €	Oculus Platform SDK
Virtual Reality SDK	100,00	1	100,00 €	Oculus Mobile SDK
Simulators A	1739,13	1	1.739,13 €	For Virtual Lab Development
REMOTE DESKTOP LICENCE	869,57	1	869,57 €	For the main host of Remote Lab and Virtual lab
Hardware Connecting Board	1036,00	1	1.036,00 €	For Remote Lab hardware Develop.
Switch, router, network accessories	1500,00	1	1.500,00 €	For Remote Lab Networking Local
Logitech Group Video Conferencing System	1100	2	2.200,00 €	E-course design, design meetings and course presentation
Total		Total	25.491,74	

P10	Shahid Chamran University of Ahvaz (SCU)		revised list sent on 06/02/2022 and confirmed on 06/03/2022		
	Item	Unit PRICE (EURO)	QTY	Total PRICE (EURO)	Justification
	CODESYS Control for Raspberry Pi SL (Software License)	50	5	250,00 €	For programming Raspberry Pi . UNI-TEL Remote lab
	Raspberry Pi Compute Module 4 Develop Kit	35,59	4	142,36 €	Is a companion board for Raspberry Pi Compute Module 4 (supplied separately). It is designed for use both as a development system for Compute Module 4 and as an embedded board integrated into end products. UNI-TEL Remote lab
	Raspberry Pi Compute Module 4	100	2	200,00 €	Raspberry Pi Compute Module 4 harnesses the computing power of the popular Raspberry Pi 4 Model B, bringing it to a smaller form factor suitable for integration into products. UNI-TEL Remote lab
	Raspberry Pi4 Computer Model B (Single Board Computer)	77,41	5	387,05 €	Computing Device UNI-TEL Remote lab
	Case	8	5	40,00 €	UNI-TEL Remote lab and for course delivery/implementation
	Blue Iris (Video Security and Webcam Software)	73,96	1	73,96 €	Blue Iris is professional-grade software incorporating the latest video software technologies, including MPEG and Windows Media webcasting.
	PTZ Camera	355,95	4	1.423,80 €	A PTZ camera is a pan, tilt, and zoom robotic video camera controllable by a remote operator to pan horizontally, tilt vertically & diagonally, and zoom in on a subject to enhance the image quality without digital pixilation.
	Oculus Quest 2 256GB All-in-One VR Headset	400	2	800,00 €	for UNI-TEL Remote lab
	Simulators A	2000	1	2.000,00 €	for UNI-TEL Remote lab
	Remote Desktop License	1000	1	1.000,00 €	for UNI-TEL Remote lab
	Hardware connecting Board	4000	1	4.000,00 €	for UNI-TEL Remote lab
	UPS	200	2	400,00 €	for UNITEL VLE
	Switch, Ruter, Network accessories	1500	2	3.000,00 €	for UNITEL VLE
	Lenovo ThinkBook ThinkBook 15 G2 I7L	911	7	6.377,00 €	for UNITEL Staff Training and Students' curriculum development
	HPE ProLiant DL380 Gen10 4210 2.2GHz 10- core 1P 32GB-R P408i-a 8SFF 800W PS Server	2.553,00	2	5.106,00 €	for UNITEL VLE
	Epson EB-X05 XGA 3LCD Projector	363,895	1	363,90 €	for UNITEL Staff Training and Students' curriculum development
			TOTAL	25.564,07 €	

We kindly ask you for the approval of the revised individual equipment lists received from the Iranian Universities that are P5, P6, P7, P8, and P10. The University of Teheran is not listed since the University is still inactive.

We are at disposal for any further clarification,

Rome, 25/07/2022

Sincerely Yours

Dr. Alessio Acomanni
General Director


