

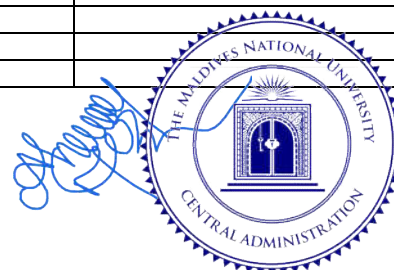
**THE MALDIVES NATIONAL UNIVERSITY
AMED PROJECT - E LEARNING STUDIO
COMPUTER & PHERIPHERALS**

1 Notebook		
Qty 4		
	Lenovo Thinkpad L480 or equivalent	Your brand and Specifications
Processor	Core i5 4M Cache (8th Gen)	
Memory	8GB DDR4	
Display	14", Antiglare	
Graphics	Integrated Intel UHD 620	
Audio	Dolby Audio, Dual far-field microphones	
Camera	HD 720p	
Keyboard	Spill resistant	
Connectivity	2x2 AC WiFi Bluetooth® 4.2 LTE-A NFC	
Ports/Slots	2 USB-C 2 USB 3.0 HDMI 4-in-1 Micro SD card reader RJ-45 Audio combo jack	
Storage	512GB SSD	
OS	Windows 10 Professional Genuine	

2 Notebook (Tablet mode)		
Qty 2		
	Lenovo Yoga 530-14IKB or equivalent	Your brand and Specifications
Processor	Core i5 6M Cache (8th Gen)	
Memory	8GB DDR4	
Display	14" FHD, IPS touchscreen	
Graphics	NVIDIA® GeForce® MX130	
Audio	Harman speakers with Dolby Audio Premium	
Camera	HD 720p	
Hinge	360° Rotatable	
Connectivity	2x2 AC WiFi	
Ports/Slots	USB-C 2 x USB 3.0 HDMI 4-in-1 card reader Audio combo jack	
Storage	512GB SSD	
OS	Windows 10 Professional Genuine	

3 Laptop		
Qty 1		
	Minimum Requirements	Your brand and Specifications
Processor	i7 (8th Gen)	
Memory	16GB DDR4	
Storage	1TB SSD	
Graphics	GeForce, 6GB	
Operating System	Windows 10 Professional x64 Genuine	
Warranty	1 Year	

4 Desktop PC (Multimedia)		
Qty 2		
	Minimum Requirements	Your brand and Specifications
Monitor	LED 27", HDMI	
Processor	Core i7, 8th Gen, 6 Cores	
Memory	32GB DDR4 RAM	
Keyboard & Mouse	USB	



Video output	HDMI	
Storage	1 TB SSD 2TB HDD	
Graphics	GeForce, 6GB, GDDR6	
Operating System	Windows 10 Professional x64 Genuine	
Warranty	3 year parts	

5 Desktop PC i7		
Qty 1		
	Minimum Requirements	Your brand and Specifications
Processor	Core i7, 8th Gen, 6 Cores	
Memory	16GB DDR4 RAM	
Keyboard & Mouse	USB	
Storage	500GB HDD	
Operating System	Windows 10 Professional x64 Genuine	
Warranty	3 year parts	

6 External Hard Drive		
Qty 5		
	Minimum Requirements	Your brand and Specifications
Storage	2TB HDD	
Connectivity	USB 3.0	

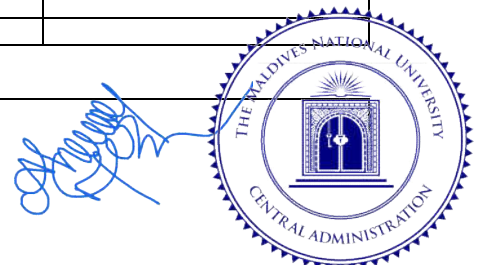
7 Monitor 24		
Qty 4		
	Dell 24 Video Conferencing Monitor: P2418HZ / Dell 24 Monitor: P2418D or better	Your brand and Specifications
Display Screen Coating	Antiglare with 3H hardness	
Panel type	In-Plane Switching Technology	
Resolution	1920 x 1080 @ 60Hz	
Connectivity	1 x Display Port 1 x HDMI 1 x Audio combo jack	
Built-in Devices	2.1 MP Full HD image sensor and dual IR LEDs with VGA infrared camera Dual digital microphone Speakers USB 3.0 Hub	
Adjustability	Height-adjustable Tilt Swivel Pivot	
Accessories	1 x DP cable 1 x HDMI cable 1x USB 3.0 upstream cable	
Warranty	3 years	

8 Keyboard		
Qty 4		
	Logitech K280 or similar	Your brand and Specifications
Keyboard layout	Full size	
Palm rest	Required	

9 Mouse		
Qty 4		
	Logitech M100 or similar	Your brand and Specifications
Mouse type	USB Optical	
Ambidextrous design	Required	

10 Wireless Keyboard & Mouse		
Qty 1		
	Logitech MK235 or similar	Your brand and Specifications
Keyboard layout	Full size	
Wireless receiver	USB	

11 Dock		
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Qty 1

	Lenovo ThinkPad USB-C Dock Gen 2 or equivalent	Your brand and Specifications
Video ports	2x Display Port, 1x HDMI Port	
USB ports	3x USB3.1 or higher, 2x USB2.0	
Audio ports	1x Combo audio jack	
Number of supported external monitors	3 Monitors	
Resolution / Refresh rate	3480x2160 @ 60Hz	
Input power	90w	
Output power	60w	
Peripherals	Keyboard and mouse	

**12 Capture Card
Qty 10**

	Magwell USB Capture HDMI Gen 2 or better	Your brand and Specifications
Input interface	HDMI (support 2048x2160 pixels)	
Audio interface	HDMI embedded	
Host interface	USB 3.0	
Signal Detection	Audio Detection of Input, Signal Format	
Video Engine	8-bit video processing	
Firmware	Updatable	
OS Compatibility	Windows 10	
Warranty	1 year	

**13 USB PTZ Tracking camera
Qty 1**

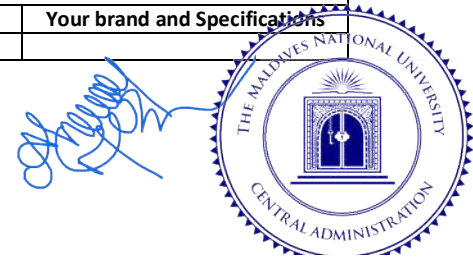
	Minimum Requirements	Your brand and Specifications
Video resolution	1080p	
Connectivity	Plug and play, USB 3.0	
Automated Tracking	Required	
Camera stand	Required	
Accessories	Rechargeable battery pack, AC adaptor, Power cord, Micro HDMI cable, Micro USB Cable	
Compatibility and Certifications	Compatible with Skype, Zoom, Google Meet, BlueJeans & GoToMeeting	

**14 Photocopier
Qty 1**

	Canon iR c3500 or better	Your brand and Specifications
Machine type	Colour Laser Multifunctional	
Supporting media sizes	A3, B4, A4, B5, A4R, A5R	
Memory Size	3GB	
Hard Disk Size	250GB	
Paper Supply	2 Trays (550 Sheets, 80gsm)	
Multipurpose tray	100 Sheets, 80gsm	
Printing speed	20 ppm (A4)	
Copying speed	20 ppm (A4)	
Scanning Speed	40 ipm	
Print Resolution	600x600dpi	
Duplex printing	Automatic	
Continuous Copy	Upto 999 copies	
Scan File Formats	JPEG, PDF, XPS	
Scanning Features	Scan to File	
Color Scanning	Required	
Network Printing	Required	
Average Monthly Volume	10,000 copies	
Toner Capacity	Black - 30,000 pages Cyan - 15,000 pages Magenta - 15,000 pages Yellow - 15,000 pages	
Warranty	2 Years Parts and Service	

**15 Studio Speakers
Qty 2**

	Minimum Requirements	Your brand and Specifications
Type	2-way, Active	



Frequency range	50Hz to 20kHz (± 3dB)	
Analog Inputs	1x XLR, 1x TRS (balanced)	
Warranty	1 Year	
Preferred brands:		JBL, Rockit, Mackie, M Audio, Samson

16 Audio Mixer

Qty 2

	Behringer Xenyx 802 or better	Your brand and Specifications
Channels	8 Channel	
Frequency Response	10Hz - 200kHz	
Mic Phantom Power	48 V	
Headphones Output	Required	
Meter Indicator	2 x LED VU meters	
Mic Channels	2 mono	
Mic Channels Connector	XLR	
Line Channels	6 mono	
Input Gain Level	40dB	
Maz Power Consumption	13 Watt	
Warranty	1 year	

17 Studio Headphones

Qty 1

	Minimum Requirements	Your brand and Specifications
Type	Semi-Open/Closed	
Rated Impedance	50 ohms	
Audio interface	Stereo plug 3.5mm	
Warranty	1 Year	

Preferred brands:

Sennheisser, AKG or Audiotechnica

18 USB Microphone

Qty 1

	Rode NT or equivalent	Your brand and Specifications
Frequency Range	20Hz - 20kHz	
Sample rate	45kHz	
Bit depth	16bit	
Polar pattern	Cardiod	
Tripod/Stand	Required	
Warranty	1 Year	

19 Compact Camcorder

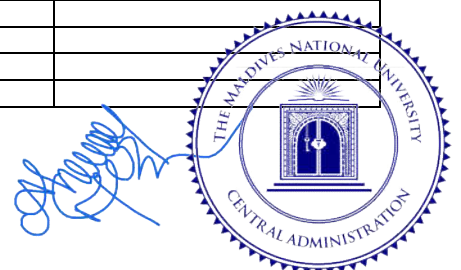
Qty 1

	Sony PXW-Z90 or equivalent	Your brand and Specifications
Video resolution	4K	
Optical Zoom	12x	
Image stabilizer	Required	
Effective pixels	12MP	
Card slot	SD/SDHC/SDXC compatible	
Audio	Built-in Omni-directional stereo microphone	
Ports	HDMI out, SDI out, Stereo headphone minijack, Micro USB	
Accessories	Rechargeable battery pack, AC adaptor, Power cord, Micro HDMI cable, Micro USB Cable, Wireless Remote Commander	
Warranty	1 Year	

20 Camcorder Tripod

Qty 1

	Sachtler Ace Aluminum Tripod or better	Your brand and Specifications
Load Capacity	4 kg	
Height	Adjustable from 30.7" to 66.5"	
Tilt Range	+90°/75°	
Feet	Retractable	



Material	Aluminium
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21 Smart Television Qty 2		
	Minimum Requirements	Your brand and Specifications
Screen	80" LED	
Connectivity	HDMI	
	USB	
	LAN	
	Wireless display capable	
Accessory	Wall mount / stand	

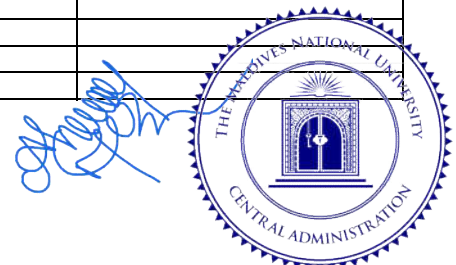
22 Shielded Indoor/Outdoor Monitor Speaker Qty 2		
	JBL Control 25AV or equivalent	Your brand and Specifications
Frequency range	70Hz - 23kHz (-10dB)	
Input type	Barrier strip	
Other	1 x Amplifier for the speakers	

23 Video Streamer & Recorder Qty 1		
	AJA HELO H.264 Streamer & Recorder or equivalent	Your brand and Specifications
Video encoding	Upto 1080p 60 in H.264/MPEG-4	
Audio encoding	2-Channel stereo upto 24-bit 48kHz	
Recording compatibility	SD,SDHC or SDXC cards, USB storage, NFS, CIFS or SMB	
Ports	USB and SD card slots	
Video input	1x HDMI, 1x 3G-SDI, 1x BNC	
Video output	1x HDMI, 1x 3G-SDI, 1x BNC	
Supported protocols	RTSP, RTMP, RTMPs, HLS & Unicast	
User interface	Web based	
Connectivity	3.5mm audio in/out, SDI in/out, HDMI in/out, LAN	
Warranty	3 years	

24 HDMI Matrix Qty 4		
	Minimum Requirements	Your brand and Specifications
Video Inputs	4x HDMI	
Video Outputs	2x HDMI	
Output Resolution	1080p	
Power adapter	Required	

25 HDMI Matrix Switch Qty 1		
	Control4 C4-8ZVMS-B or equivalent	Your brand and Specifications
Video Inputs	8x HDMI	
Video Outputs	2x HDMI, 8x RJ45	
Output Resolution	1080p	
Audio Outputs	8 x 3.5mm	
Network	10/100 Base T Ethernet	
Rack Mount Ears	Required	
Power adapter	Required	

26 HD BaseT Receiver Qty 8		
	Control4 C4-HDBTEB-B or equivalent (compatible with Matrix Switch)	Your brand and Specifications
Video Inputs	1x RJ45	
Video Outputs	1x HDMI	
LAN Port	1x RJ45	
Output Resolution	1080p	
Power adapter	Required	



27 Additional accessories & cables		
Qty	Description	Your brand and Specifications
4	XLR Male To 1/4 "Male Mono Jack Plug Adapter	
4	XLR Female To 1/4 "Male Mono Jack Plug Adapter	
2	XLR cables (20m)	
4	HDMI Cable (10m)	
4	Distribution Amplifier (4 x HDMI Inputs, 2 x HDMI Outputs)	
4	HDMI to SDI converter	
4	SDI to HDMI converter	
2	Displayport to HDMI converter	
2	Mini Displayport to HDMI converter	
5	Logitech Presenter Device	

