

15.Computer Engineering and Information Technology Engineering

Lab Equipment

SR No	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)
1	2
1	<p>Integrating Sound Level Datalogger</p> <p>Model : 407780A</p> <p>Brand : Extech</p> <p>Country of Origin: USA</p> <p>Digital Display 4 digital LCD</p> <p>Measurement Parameters SPL, SPL MIN/MAX, SEL, and Leq</p> <p>Measurement Range : 30dB to 130dB</p> <p>Analog AC/DC Output 2Vrms (at full scale), 10mVDC/dB</p> <p>Linearity Range: 100dB</p> <p>Measurement Frequency Range : 31.5Hz to 8KHz</p> <p>Frequency Weighting : A and C</p> <p>Response Impulse, Fast and Slow</p> <p>Microphone 1/2 " Electret condenser microphone</p> <p>Sampling time updated every 0.5s</p> <p>Bargraph 4dB steps, 100dB range, 125ms update</p>

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1	2
2	<p>Potable Air Quality Monitors</p> <p>Model : 500 Series HH S500L</p> <p>Brand : Aeroqual</p> <p>Country of Origin : New Zealand</p> <p>Aeroqual portable air quality monitors are cost-effective Solution</p> <p>To accurately measure multiple target gases at different concentrations in indoor and outdoor applications.</p> <p>Measurement Units :Gas : ppm or mg/cm³ /Humidity :%/Temperature C or F</p> <p>Reading Functions : Instant ,minium,maximum,average</p> <p>Sensor Calibration : Zero and gain Calibration</p> <p>Analog Output : 0-5 V</p> <p>Digital Interface : RS-232 to USB</p> <p>Data logging : Up to 8188 records (2706 incl.Temp/RH)</p>
3	<p>Digital Oscilloscope Brand : Rigol, Model : DS 2202A (200 MHz, 2channels) 2GSa/s (Single- channel), 1GSa/s (Dual- channel , 14 Mpts</p>
4	<p>MSI B460 Motherboard (i9-10 th Gen) Professor : Intel (R) Core 10900F professor (10-Core, 20 M Cache , 2.8 Hz to 5.2 Hz) , Memory : 32 GB, 2*16 GB, DDR4, 2933 Mhz, Hard Drive: 512 GB M.2 PCIe NVMe SSD, Graphics : NVIDIA(R) GeForce(R) RTX 2070 SUPER (TM) 8GB GDDR6, Monitor: DELL/ HP/ View Sonic 24" , USP : 1250SFC UPS, Keyboard and Mouse</p>

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SR No	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)
1	2
5	Sensors Pack
6	Raspberry Pi 4 Model B 8GB RAM, Completely Upgraded
7	Arduino Uno Board
8	Robot Car Kit
9	EMW3162 WIFI Shield for Arduino/Nucleo
10	Ublox GPS Module
11	SIM 900A V4 GSM GPRS Wireless Extension Module
12	Mega Sensor Shield for Arduino Dev Board
13	LCD 1602 (3.3V Yellow Backlight)
14	37 in 1 Sensor Module Kit for Arduino

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SR No	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)
1	2
15	<p>WF-integrated Wireless Tech Kit</p> <ul style="list-style-type: none">• Gateway Controller Router - Enterprise Security Gateway and Network Appliance with 10G SFP+, Threat Management, Endpoint Scanning, DNS Content Filtering, User Friendly Interface, Plug and Play Installation, Additional Live Views, Rack mount 1U (1 Nos)• Access Point 1 - Wi-Fi 6 Access Point with dual-band 2x2 MIMO, Transmission rate over 1Gps, 2.4 GHz band, 5 GHz band OFDMA, Gigabit Ethernet, powered with 802.3 at/af PoE (1 Nos)• Access Point 2 - Wi-Fi 6 Access Point with dual-band 4x4 MIMO, Transmission rate over 2Gps, 2.4 GHz band, 5 GHz band OFDMA, Gigabit Ethernet, powered with 802.3 at/af PoE (1 Nos)• Access Point 3- Secured Radio Channel Wi-Fi Access Point

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1	2
	<p>Transmission rate over 1.7Gps, 2.4 GHz band, 5 GHz band Gigabit Ethernet, powered with 802.3 at/af PoE (1 Nos)</p> <ul style="list-style-type: none">• Access Point 4 – Wi-Fi Access Point with Public Addressing System and dedicated dual-band 3x3 MIMO, Transmission rate over 1.7Gps, 2.4 GHz band, 5 GHz band Gigabit Ethernet, powered with 802.3 at/af PoE (1 Nos)• Access Point 5– 360 degree outdoor long range Wi-Fi Access Point dedicated dual-band 3x3 MIMO, Transmission rate over 1.7Gps, 2.4 GHz band, 5 GHz band Gigabit Ethernet, powered with 802.3 at/af PoE (1 Nos)• Entender Access Point – Entended Wi-Fi Access Point dedicated dual-band 3x3 MIMO, Transmission rate over 1.7Gps, 2.4 GHz band, 5 GHz band Gigabit Ethernet, powered with 802.3 at/af PoE (1 Nos)

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1	2
	<ul style="list-style-type: none">• Access Point 6 – Heavy Load Wi-Fi Access Point Quad-band Wave 2 MIMO, 4.2 Gigabit Aggregate throughput, 10GE Ethernet Interface, 2.4 GHz band, 5 GHz band Low Latency, Overcrowded handling over 1500 clients, powered with 802.3 at/af PoE (1 Nos)• POE Switch (10GE) – 6Port Switch 4 Port 10GE PoE Switch with dedicated 10GE 2SFP+, 1/2.5/5/10 Gigabit Ethernet ports with PoE++ support, SFP+ and intelligent switching, support all layer2+ features (1 Nos)• POE Switch – 8 Port POE Switch 8 Port 1GE PoE Port with dedicated 1GE 2SFP, 1 Gigabit Ethernet ports with PoE+ support, SFP and intelligent switching, support all layer 2+ features (1 Nos)• Copper Modules – 10GE Copper SFP Module (1 Nos)• Cat 6 Cable – Read Made Cat 6 Cables Multiple various
	<ul style="list-style-type: none">• Movable Metal Pole – Moveable Metal Pole for Testing Environment, available to mount all included Access Point (1 Lot)

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SR No	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)
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16	<p>Network Lab Kit (set)</p> <p><i>(1) WAN Edge Router (1Nos)</i></p> <p>Specification: - WAN Edge Router : Internet Service Router</p> <p>Brand: Cisco,Model: ISR4321</p> <p>Cisco ISR Router 4321 Series Router</p> <ul style="list-style-type: none">- 2 x 10/1000/1000 WAN/LAN Port- Support WAN Edge and Routing Features-4 GB DRAM, 8GB Flash- Power Supply <p>Country of Origin: USA</p> <p><i>(2) NFW Firewall (1 Nos)</i></p> <p>Specification: Brand : Cisco</p> <p>Model: ASA5506-K9</p> <ul style="list-style-type: none">- Cisco ASA 5506-X Next Gernation Firewall- 8 x 1GE RJ45 Port, 1x1GE Mgnt, 1 x Console

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1	2
	<ul style="list-style-type: none">- 250 Mbs throughput with AC and 125 Mbs throughput with AVC and IPS- 10;50 IPSec, SSL VPN- 5;30 VLAN Interfaces- 4 GB Memory, 8 GB Flash- Support Expansion Slot <p>Country of Origin:USA</p> <p>(3) Core/Distribution Switch (1 Nos) Specification:</p> <p>Brand: Cisco</p> <p>Model: C9200L-24T-4G-E</p> <p>Cisco Catalyst C9200L 24 Gigabit , 4x1G, Network Essentials Layer 3 Switch (1 Nos)</p> <ul style="list-style-type: none">- Cisco Catalyst SW OS with Network Essentials- 24 x 10/1000/1000 Base-T Gigabit RJ45 Port- 4xSFP Optical Fiber UpLinks

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1	2
	<ul style="list-style-type: none">-Support IPv4 Routing entries up to 4000-4 GB DRAM, 4GE Flash-56Gbs switching capacity, 136Gbps with stack, 41.66 Mpps forwarding reate-125 AC Power SupplyCountry of Origin: USA(4) Layer 2 Managed PoE Switch (2 Nos) Specification:Brand: CiscoModel: C1000-8P-2G-LCisco Catalyst 1000 Series Switches, 8 x 1GE RJ45 PoE, 2 x 1GE RJ45/SFP Combo- Cisco Catalyst SW OS- 8 x 10/1000/1000 Bast-T Gigabit RJ45 Port PoE Port (67W PoE Budget)- 2 x RJ45 SFP Combo

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SR No	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)
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	<p>(5) Layer 2 Managed Switch (2 Nos) Specification:</p> <p>Brand: Cisco</p> <p>Model: SG350-10</p> <p>Cisco Small Business 350 Series Switches, 8xRJ45 1G Port, 2x GE RJ45/SFP Combo</p> <ul style="list-style-type: none">- Small business operating system- 8 x 10/1000/1000 Bast-T Gigabit RJ45 Port- 2 x RJ45 SFP Combo- Support up Layer 2 Feaures such as VLAN, 802.1q, STP, QoS, Switching, Trunking etc, <p>Country of Origin: USA</p> <p>(6) Cluster Controller Access Point (4 Nos) Specification:</p> <p>Brand: Cisco Model: AIR-AP1815I-H-K9</p> <p>Cluster Controller Access Point (4 Nos)</p> <p>Cisco Aironet 1815I 802.11ac Wave 2 Access Point Reg Domain</p>

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	<ul style="list-style-type: none">- 802.11 a/g/b/n/ac wireless standards- RJ45 Gigabit Port support PoE in and 1x Management Console Port- Support Dynamic VLANs- WDS, WPA, WPA2, WPA3, 802.1x, MAC Filtering Security features <p>Country of Origin: USA</p> <p>(7) Console Cable (5 Nos)</p> <p>Specification:</p> <ul style="list-style-type: none">-Cisco USB Console Cables (5 Nos) <p>(8) Cat 6 Cable (30 Nos) Specification:</p> <ul style="list-style-type: none">-RJ45 Cat 6 5M Standard UTP Patch Cord (30 Nos)
17	. 27U Rack Specification:Syntax Toten GS-E Server Cabinet - 27U (Black) (600x1000x1388)
18	8 Port KVM (17") Specification: 17" Rack LCD Console with Integrated 8 Port Analog KVM Switch
19	Logitech C922 Pro 1080p Webcam

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20	<p>CISCO SERVER</p> <p>UCS C220 M5 SFF 10 HD w/o CPU, mem, HD, PCIe, PSU x (1 Nos)</p> <p>32GB DDR4-2666-MHz RDIMM/PC4-21300/dual rank/x4/1.2v (4 Nos)</p> <p>1 TB 12G SAS 7.2K RPM SFF HDD (3 Nos)</p> <p>Cisco UCS 770W AC Power Supply for Rack Server (2 Nos)</p> <p>Friction Rail Kit for C220 M4 and M5 rack servers (1 Nos)</p> <p>C220 M5 Security Bezel (1 Nos)</p> <p>Heat sink for UCS C220 M5 rack servers 150W CPUs & below (2 Nos)</p> <p>2.2 GHz 4114/85W 10C/13.75MB Cache/DDR4 2400MHz (2 Nos)</p> <p>Cisco 12G Modular RAID controller with 2GB cache (1 Nos)</p> <p>SNTC 8X5XNBD UCS C220 M5 SFF 10 HD w/o CPU, mem, HD, PCIe, P (1 year)</p>

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1	2
21	Fortigate Firewall FG-300E FC-10-00306-950-02-12 18 x GE RJ45 ports (including 1 x MGMT port, 1 X HA port, 16 x switch ports), 16 x GE SFP slots, SPU NP6 and CP9 hardware ONE (1) Year - Unified Threat Protection (UTP) (IPS, Advanced Malware Protection, Application Control, Web Filtering, Antispam Service, and 24x7 FortiCare)
22	NAS Server WD Red Pro 12 TB(Western Digital Red Pro 12TB 3.5in SATA III SSD NAS Hard Disk, 7.2K RPM, 128MB Cache), 16GB RAM(16GB RAM for Synology Rack Station), Quad- core 2.1 GHz CPU
23	EasyMx PRO v7 for Stellaris ARM ARM 32-bit/64-bit, Developing and testing firmware, creating prototypes, learning embedded programming, MCU- LM3S9B95, On-board mikroProg for ARM debugger

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24	Raspberry Pi 4 Model B Quad-Core 64-bit Broadcom 2711, Cortex A72 Processor, WLAN 802.11 b/g/n/ac (2,4 + 5,0 GHz), LAN RJ45 10/100/1000 Mbit (Gigabit LAN over USB 3.0), Operating Power , 5V@3A via USB Type-C Port , Dual-Display Micro HDMI Ports which supports H 265 Decode for 4K Video @60p
25	TP Link SDN and PoE Switch TP-Link TL-SG3210XHP-M2 ,Jetstream 8 Port Multi-Gigabit L2+ Managed PoE Switch , 8 PoE+ Port @240W, 2 x 10G SFP+ Slots , 2.5G Bandwidth , Omada SDN Integrated , IPv6
26	TP Link Omada Hardware Controller (OC200) TP-Link Omada Hardware Controller , SDN Integrated , PoE Powered , Manage Up to 100 Devices , Easy & Intelligent Network Monitor & Maintenance , Cloud Access & Omada App (OC200)
27	Cloud Router Switch (MiKroTik) CSR328-24P-4S+RM , ARM 32bit, RouterOS / SwitchOS, 512 MB (RAM),
28	Seagate External Harddisk (1TB) Backup Plus Slim 1TB 2.5" USB 3.0

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29	<p>Network Simulation System</p> <p>Software: Dynamips/Dynagen Engine based Network Simulation Software</p> <p>Including Setup and Training</p> <p>Hardware: Dell PowerEdge R740, Chassis: Chassis with up to 8 x 2.5" SAS/SATA Hard Drives, Processor: 2 x Intel Xeon Bronze 10C/20T, 22M Cache, Turbo, Memory: 4 x 16GB DDR4, speeds up to 3200, 6TB max (48 DIMM slots) ECC Buffered Registered, Hard Disk: 2 x 960GB SSD SATA Read Intensive 6Gbps 512 2.5in Hot-plug AG Drive, 1 DWPD, 1752 TBW, Raid: No Configured RAID, Raid Controller PERC H730P RAID Controller, Operating Sys: No Os Installed, EMS: iDRAC Card & iDRAC 9 Express License iDRAC Group Manager, Disabled, Network: Broadcom 5720 QP 1Gb Network Interface Card, Optical Drive: DVD+/-RW,SATA,Int,</p> <p>Power Supply: Dual, Hot-plug, Redundant Power Supply (1+1), 750W, Power cords: 2 x NEMA 5-15P to C13 Wall Plug, 125 Volt, 15 AMP, 10 Feet (3m),</p>
30	<p>Storage Server Upgrade</p> <ul style="list-style-type: none">- WD Red Pro 8 TB(Western Digital Red Pro 8TB 3.5in SATA Enterprise NAS Hard Disk, 7.2K RPM, 128MB Cache)- 16GB RAM(16GB RAM for Synology Rack Station)- 8GB RAM (8GB RAM for Synology Rack Station)

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1	2
31	<p>Optical Fiber Test Kit</p> <ul style="list-style-type: none">-Fluke Network-FTK-1475-Power Meter-1310/1550 Singlemode Source-850/1300 Multimode Source-Visual Fault Locator VFL-FI-500 Fiber Inspector Micro-Inspection Probe Tips(LC,SC,1.25mm and 2.5mm Universal)-Find fiber Remote ID Source-SC Power Meter Adapter/ ST Power Meter Adapter-LC Power Meter Adapter/ Magnetic Strap Attachment/ NFC- <p>KIT-BOX Fiber</p> <ul style="list-style-type: none">-Cleaning Kit
32	<p>Fiber Optic Splicer(Brand-Fujikura, Model-Core Alignment Fusion Splicer 88S, Country of Origin-Japan)</p> <ul style="list-style-type: none">- Multi-Mode(M M), G615- Single Mode(SM)G652&G657- Single Mode(DS/NZDS)Non-Zero Dispersion- Shifted Fiber(G65s)Cladding diameter : 80...150mm

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33	PowerVault NX3240 (Storage Server) Dell EMC NX3240, Single Intel Xeon Bronze 3204 1.9G, 16GB Mem, Entry Config C12, RAID 5 for 4 or more HDDs or SSDs (Matching Type/Speed/Capacity) 1.2TB 10K RPM SAS 12Gbps 512n 2.5in Hot-plug Hard Drive, 3.5in HYB CARR (6Qty)
34	APC AR3350 NetShelter SX 42U 750mm Wide x 1200mm Deep Enclosure
35	Dell EMC Switch N1500 Series Switch
36	Intel Core i7 CPU VMCS shadowing support (Haswell or newer) or AMD FX-6xxx with AMD-V 32GB RAM 250 GB HDD on a single disk (SSD strongly recommended) 1440* 1050 Screen resolution Giagabit Ethernet USB3 support (boot from USB required)
37	Microsoft XBOX 360 Kinect Sensor
38	Surface Pro 7 - Platinum, Intel Core i7, 16GB RAM, 1TB SSD
39	TP-Link N300 Wifi Extender (TL-WA855RE) Specification: external antennas,
40	Teaching-Aid Screen(54")
41	OTG 32G

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1	2
42	TP-Link AX1500 Wifi 6 Range Extender Specification: 802.11ax, 2 antennas, 1.5 GHz tri-core processor
43	HP Pavilion 24 All-in-One (2020) Specification: 23.8" touch-screen Pavilion all-in-one desktop
44	On-Premise Web-Conferencing (Meeting) Server for University Manufacturer: Dell Model: Poweredge T440 CPU: 2 x Intel Xeon Bronze 6Core/6 Thread RAM: 32 GB (4x8GB) 3200MT/s RDIMMs Dual Rank RAID Controller: PERC H330 RAID Controller HDD: 4 x 2TB 7.2K NLSAS 12Gbs 512n Hot Plug HDD Network: On-Board Broadcom 5720 Dual Port 1Gb LOM Power Supply: Dual HotPlug Redundant Power Supply (550W) HD Audio with Opus, Full Security Encryption, Desktop Sharing, and Integrated Chat Support, Whiteboard, Co-browsing, Instant Messaging. Customized User Interface with the University Logo, Images, etc.,

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1	2
45	<p>(Inverter+UPS +Battery)</p> <p>IPS Capacity: 5000VA</p> <p>Input Nominal Voltage: 220/230/240VAC</p> <p>Input Voltage Range: 170–280VAC</p> <p>Output Nominal Voltage: 230VAC</p> <p>Output Frequency Range: 50/60 Hz (Auto Sensing)</p> <p>Waveform: Pure Sinewave Transfer Time: Narrow mode<8ms/Wide mode<40ms</p> <p>Battery Colour: Black, Nominal: 12Vdc</p> <p>Nominal Capacity: 200Ah @ 20 hour ☐</p>
46	<p>Interactive Touch System 75"</p> <p>75" i-SMART Touch Interactive Touch System</p> <p>Mi TV 75" 4k</p> <p>Touch Screen Overlay Frame</p> <p>150kg TV Stand Cart</p> <p>2*Touch Pen,HDMI Cable</p> <p>Bluetooth Mini Keyboard and Mouse</p>

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47	<p>Digital Logic Fundamentals</p> <p>DL3155E20, DL 3155E21 (De Lorenzo)DL3155E20 Digital Logic Fundamentals 1 Features : • AND / NAND • OR / NOR • XOR / XNOR • Open Collector• SET / RESET, D Type , JK Flip-Flop • Tri-State Output • TTL / CMOS Comparison etc. DL 3155E21 Digital Logic Fundamentals 2Features : • BCD Decimal Decoder / BCD Priority Encoder • ADC / DAC• Multiplexer / Demultiplexer • 7-Segment Driver / Display • Built-in clock circuit • Parity Generator / Checker • +5 V regulated supply • Built-in pulse generator circuit • Built-in counter circuitry • AD673 ADC and AD558 DAC • The 74LS42 decoder and LS147 encoder • The LS151 multiplexer and LS155 demultiplexer</p> <p>Accessories :-1 Unit of Base frame with power supply and interface to pc -CAI Software :</p>
	Complete with a Student Navigator software that allows students to perform their learning activities through a Personal Computer, without the need for any other documentation
48	Transcend 230s Internal SSD(512 GB)
49	Arduino Uno Board
50	Project Board
51	Digital Multimeter (Large LCD Display, Button release Lock, 32 Position rotary switch to select function or range, Auto power off Function, Data Hold function)

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1	2
52	Wide Area Network (WAN) And Internet De Lorenzo DL TC75 TC75-MS: Structure of a WAN TC75-DR: Router Serial type WAN interface V24/RS232. 10BaseT LAN interface. RJ-45 or RS-232 port
53	Local Area Network (LAN) And Internet De Lorenzo DL TC74 TC74-MC: LAN structured cabling TC74-DS: Switching HUB TC74-DM: Media Converter
54	UPS 650VA
55	Raspberry Pi
56	Raspberry Pi 7" touch scree display
57	Netduino 2
58	Air Conditioner (2 HP,split type) (R410A)
59	ViewSonic Keyboard Model: KU-100
60	Optical Mouse
61	Silicon Power U03 Flash Drive 32GB
62	Digital Multimeter (Large LCD Display, Button release Lock, 32 Position rotary switch to select function or range, Auto power off Function, Data Hold function)

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1	2
63	Wide Area Network (WAN) And Internet De Lorenzo DL TC75 TC75-MS: Structure of a WAN TC75-DR: Router Serial type WAN interface V24/RS232. 10BaseT LAN interface. RJ-45 or RS-232 port
64	Local Area Network (LAN) And Internet De Lorenzo DL TC74 TC74-MC: LAN structured cabling TC74-DS: Switching HUB TC74-DM: Media Converter
65	Raspberry Pi
66	Raspberry Pi 7" touch scree display
67	Netduino 2
68	I- SMART Touch Interactive Touch Screen System
69	i-SMART Touch Accessories
70	Studio Audio Mixer Amplifier Wireless Microphone XLR
71	Wireless Microphone set with Headset
72	Yamaha PX10 Stereo Power
73	Sound Box (Yamaha DXR 8)