

## 2.Lab Equipment for MAEU & UTYCC

SR No	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)
1	2
1	<p>«OrbiCraft» satellite functional ki Article: SX-ORBICRAFT-1.0 -SPUTNIX Satellite functional kit contains: Payload; Onboard computer based on Raspberry Pi; Power supply unit; UHF-transceiver; Sun sensor, angular rate velocity sensor, magnetic field sensor and flywheel; Software</p>
2	<p>Electromagnetic Torquer (X-axis) - SX-MT-50 - SPUTNIX Max: magnetic moment: Am<sup>2</sup>= 5.0 Mass: 200 g,Outer Dia: 20 mm,Length: 330mm</p>
3	<p>Electromagnetic Torquer (Y-axis) -SX-MT-20 - SPUTNIX Max: magnetic moment: Am<sup>2</sup>= 2.0 Mass: 160 g,Outer Dia: 15 mm,Length: 150mm</p>
4	<p>Electromagnetic Torquer (Z-axis) - SX-MT-35 -SPUTNIX Max: magnetic moment: Am<sup>2</sup>= 3.0 Mass: 180 g,Outer Dia: 16 mm,Length: 232mm</p>

## 2.Lab Equipment for MAEU & UTYCC

SR No	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)
1	2
5	<p>Complex of space environment simulators "Terra"</p> <p>Article: SX-TERRA-01, -SPUTNIX,</p> <p>Contains: Magnetic field simulator; Earth mock-up; Sun simulator ;Software</p>
6	Gym Bike
7	E3 Treatmill
8	Universal Weight Set
9	တင်နစ်ဇွဲ(9'x5')
10	<p>Agilent 1671G RF Logic Analyzer</p> <p>State Analysis Speed- 150 MHz</p> <p>250/500MHz (full/half channel)</p>
11	<p>Agilent/HP 83623B High Power Swept- Signal Generator</p> <p>0.01-20GHz</p>
12	<p>DSP-Digital Signal Processor TIME Electronic BoardDe</p> <p>Lorenzo DL 3155E26-High-Performance Static CMOS</p> <p>Technology -150 MHz (6.67-ns Cycle Time) -Built-in</p> <p>FLASH 256KB o Built-in RAM 36KB -Low-Power (1.8-V</p> <p>Core at 135 MHz,1.9-V Core at 150 MHz, 3.3-V I/O) -</p>

## 2.Lab Equipment for MAEU & UTYCC

SR No	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)
1	2
13	<p>Digital Signal Processing Training Kit (DSP LAB 2000) various representative signal analysis algorithms and the design and response status of various type of FIR, IIR digital filters</p> <p>DSP:TMS 320C31-50MHz Drive</p> <p>RAM: 128KByte x4-12 kword</p> <p>ROM: 512KBit-64kbyte</p>
14	<p>Regulation and Controls Training System De Lorenzo DL 3155M33 Circuit Blocks-Summing point , Proportional controller , ON -OFF controller , -Driver 2 , Integral controller , Summing point , Driver 1 , Pulse width modulator Application board, Operation of an open loop and closed loop system Application board for Temperature Control, aracteristics of the heater-Closed loop proportional control of the temperature-Closed loop proportional-integral control of the temperature Application board for Position Control- Characteristics of the position sensor , Closed loop control of the position Application board for Pressure Control</p>
15	<p>Kinect Sensor with XBOX 360</p> <p>Microsoft</p>
16	HDMI 10M Cable

## 2.Lab Equipment for MAEU & UTYCC

SR No	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)
1	2
17	<p>Laptop</p> <p>G ASUS S-533, 11th I 7,1165G7 Intel Core™ processors equip the Windows 10 dual-system, and includes up to 16GB PCLESSD-RAM, Hard Disk 1TB, Display-15.6inch.,Graphic Card-Nvidia Geforce 2G,DDR5, Wireless card-Wifi 6, Battery 4Cells 65Wh.</p>
18	<p>Seagate Backup Plus (External HDD 1 TB Portable)</p>
19	<p>Pop up mobile External USB DVD/CD Drive (USB-30)Gatoga</p>
20	<p>Handheld Recorder (Tascam: DR-44WL)</p>
21	<p>Switching, Routing, and Wireless Essentials Companion Guide (CCNAv7) Book + eBook Bundle</p>
22	<p>Enterprise Networking, Security, and Automation Companion Guide (CCNAv7) Book + eBook Bundle</p>
23	<p>Graphic Card 4G (Nvidia Quadro M2000 4GB GDDR5 128-bit PCI Express 3.0 x16 Full Height Video Card )</p>

## 2.Lab Equipment for MAEU & UTYCC

SR No	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)
1	2
24	<p>I/O Link Omron Sensor Training Kit</p> <p>Features</p> <ul style="list-style-type: none"><li>1 Mark color sensor with I/O Link.</li><li>2 Photo sensor with I/O Link.</li><li>3 Proximity sensor with I/O Link.</li><li>4 I/O Link master for communication with EtherCAT</li></ul> <p>Learning Topics</p> <ul style="list-style-type: none"><li>1. How to use sensor for match in each application.</li><li>2. How to use I/O Link.</li><li>3. How to communication I/O Link and EtherCAT</li></ul>

## 2.Lab Equipment for MAEU & UTYCC

SR No	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)
1	2
25	<p>Sensors and Transducers Experiment Kit</p> <p>Sensor Experiment Set Features : DL 3155E25T</p> <ul style="list-style-type: none"><li>• Measurement of T through a thermistor</li><li>• Magnetic switch</li><li>• P.I.R. Sensor</li><li>• Infrared transmission and reception</li><li>• Measurement of T through a thermocouple</li><li>• Hall sensor</li><li>• Measurement of the deformation through a strain gauge</li><li>• Use of the capacitor sensor</li><li>• Inductive sensor</li><li>• Pressure Sensor</li><li>• Transmission and reception of ultrasonic signals</li></ul> <p>Transducer Fundamentals Features : DL 3155E25</p> <ul style="list-style-type: none"><li>• Reference voltage supply</li><li>• Heating section (with</li></ul>

## 2.Lab Equipment for MAEU & UTYCC

SR No	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)
1	2
	<p>Thermistor (NTC) • Resistance Temperature Detector (RTD) • Capacitive sensor • Thermocouple • Infrared controller • Ultrasonic transducers Accessories -CAI SOFTWARE: Complete with a Student Navigator software that allows students to perform their learning activities through a Personal Computer -Base frame with power supply - 1 Unit</p>

## 2.Lab Equipment for MAEU & UTYCC

SR No	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)
1	2
26	<p>Regulation and Controls Training System</p> <p>De Lorenzo DL 3155M33</p> <p>Circuit Blocks–Summing point , Proportional controller , ON</p> <p>–OFF controller ,</p> <p>–Driver 2 , Integral controller , Summing point , Driver 1 , Pulse width modulator</p> <p>Application board for Motor Speed Control</p> <p>–Characteristics of an encoder ,Operation of an open loop and closed loop system</p> <p>Application board for Temperature Control</p> <p>–Characteristics of the temperature sensor , ON-OFF control of</p>



## 2.Lab Equipment for MAEU & UTYCC

SR No	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)
1	2
27	<p>proportional control of the temperature</p> <p>'-Closed loop proportional-integral control of the temperature</p> <p>Application board for Position Control-Characteristics of the position sensor , Closed loop control of the position</p> <p>Application board for Pressure Control-Characteristics of the pressure sensor Closed loop proportional-integral control of the pressure.</p>
28	Vacuum Casting Machine
29	<p>Laboratory Flotation Machine</p> <p>(Interchangeable Impellers( mm)54,73,95 911MPE-D12-M) Variable Speed(RPM)700 to 2000 Available Tank Cell Volumes(cc) 500 to 8000</p>
30	<p>Laboratory Hydraulic dry powder pellet press machine with Protection Cover</p> <p>Molel SYP 15BS Optional parts-Digital pressure gauge</p> <p>Digital pressure -Digital display 0.00-40.00 mpa,accuracy 0.01 Mpa Maximum pidton stroke-30mm</p> <p>Instrument weight -40g</p>

## 2.Lab Equipment for MAEU & UTYCC

SR No	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)
1	2
31	<p>Tascam: DR-44wl portable Handheld Recorder</p> <ul style="list-style-type: none"> <li>• Wi-Fi Enabled Control and File Transfers</li> <li>• Stereo XY Condenser Microphone</li> <li>• 2x Combo XLR Inputs</li> <li>• 4-Track Multitrack Mode</li> </ul>
32	<p>Raspberry Pi 3(B) Model B (including 35 Casing)</p> <p>4GHz 64-bit quad-core processor, dual-band wireless LAN, Bluetooth 4.2/BLE, faster Ethernet, and Power-over-Ethernet support</p>
33	<p>Web Cam Camera</p> <p>VB-CAM-001( View Sonic)</p> <p>Full HD ultrawide USB camera with integrated dual stereo microphones that enables crystal clear communication for your remote meetings</p>
34	<p>Desktop Computer</p> <p>(Asus ROG Maximus IX Exterme LGA1151, intel Core i7-8700 Desktop Processor 6 cores up to 4.6 GHz, Asus Arez Strix Radeon Rx VegaG4 8GB OC Edition, 16GB DDR4 Full compatible AMD motherboard, Seagate 2TB HDD, Case Thermal take)</p>

## 2.Lab Equipment for MAEU & UTYCC

SR No	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)
1	2
35	Graphic Card ASUS VGA GRAPHIC (GTX 1650 4GB D5)
36	MacBook Pro 13-inch (2020) Apple M1 chip with 8-core CPU, 8-core GPU, and 16-core Neural Engine 16GB unified memory 1TB SSD storage 13-inch Retina display with True Tone Backlit Magic Keyboard - US English Touch Bar and Touch ID Two Thunderbolt / USB 4 ports Final Cut Pro
37	Strapping Machine 900mm(L),580mm(W),730mm(H)
38	Hybrid Solar Power Generation and Control Design Trainer(PV and Wind Energy), Model: HBRX3004, Brand: ONSET, Media: USA
39	LORA Mesh Smart Meter Networks Configuration and Design Trainer for Digital Monitoring Platform, Model: SCT551, Brand:SCT, Made: Local, including 3 smart meters and software application.
40	Telemetry Electrical Energy Monitoring System (TEEMS), for web based monitoring systems for monitoring and control of electrical energy generation. Model: TTEMS. Brand: Onset, Made: USA. Integrated by SCT Engineering.

## 2.Lab Equipment for MAEU & UTYCC

SR No	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)
1	2
41	<p>SOLAR PHOTOVOLTAIC TRAINER EFT-900 WITH DATA ACQUISTION Model: EFT-900 with complete accessories, Brand: ADI (Alecop Didactic International), Country of Origin: Spain, (1) Photovoltaic Panel with rolling mast and sensor (2) Accessory Light for rolling Mast (3) DIDAXTIC TABLE TOP FRAME (Two Tiers 20 Single Modules) (4) Laptop Computer and Software (5) Installation, Training and Commissioning are include in the offer.</p>
42	<p>Solar-Wind-Fuel Cells Energy Trainer De Lorenzp DL GREENKIT</p>
43	<p>Demonstration for optical interference, diffraction and polarization [ Model: QH 2508, Brand: Qinghua]</p>
44	<p>Ohm's Law Apparatus [Brand: ARCO]</p>
45	<p>Kirchhoff's Law (for DC Circuits) withPower Supply and 2 meters (C.R.)</p>
46	<p>Experiment of Magnetic Field and Current [Model: QH 2404, Brand: Qinghua, Made: China]</p>