Details of Computer Centre

Name of Laboratory	No. of Computers with configuration	Other Equipment (LAN/Servers/Printers/Firewall etc.)	Legal Software (System & Application)
Computer Centre	Total 40 No's HP 280 G9 (40), Intel Core i7-12 Gen, 512GB NVME SSD, 16-GB RAM, Keyboard, Mouse, 19.5" Monitor	Total (Server) - 25 HP ProLiant ML350 Gen9 Server (4) HPE DL 380 Gen10 Server (1) Intel Xeon Silver 4208(2.1 GHz/8Core/85W) 1P 16GB DDR4 x3 12LFF Server (P02463-B21) 4TB SATA HDD, HPE Smart Array P816i-a HP 280 Pro G8 (20), Intel i7-11700 @ 2.50GHz CPUs, 256 GB SSD & 1 TB HDD, 32 GB RAM, HP Keyboard, HP Mouse, 19" Color TFT Monitor. *Mikrotek* 10 kVA Online UPS (3) Mikrotik 24 Port Switch (16) HP LaserJet Pro 570dw MFP Color Printer (1) HP LaserJet Pro MFP4104 dw Printer (2) LCD Projector (1) Interactive Board/Smart TV (1)	As per list enclosed

Name of Laboratory	No. of Computers with configuration	Other Equipment	Legal Software (System & Application)
IOT Lab/ E-Yantra (Project) Lab And R & D Lab	Total 15 No's (05 - IOT / E-Yantra Lab) (10 - R & D Lab) HP 290 P0055IL, Intel i3-*th Generation CPU, 4 GB RAM, 1-TB HDD	Raspberry Pi 3 Model B+ and accessories: Raspberry Pi 3 Model B+ board Accessories: 5.1 V, 2.5 A official power supply for Rpi3, 16GB Class 10 MicroSD card (Samsung EVO/Sandisk), Rpi3 official case (Black/White),HDMI to VGA cable Arduino Mega 2560 R3 and accessories: Arduino Mega 2560 R3 board (original – made in Italy) with USB A to B cable Arduino Uno R3 and accessories: Arduino Uno R3 board (original – made in Italy) with USB A to B cable Node MCU Dev Kit: Node MCU Dev Kit Version 2 with ESP8266 -12E, USB to micro USB data cable Particle Photon IOT Module: Particle Photon IOT Module, USB to micro USB data cable Temperature Sensor Module for Arduino Real-Time Clock Module DS1302 with Battery	As per list enclosed

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		for Arduino Sensor Shield v5 for Arduino Mega Sensor Shield R3 for Arduino MAX6675 K Type Thermocouple Temperature Sensors Temperature 0-80 Degrees Module for Arduino/Raspberry-Pi/Robotics Alcohol Sensor Dust Sensor Ear-clip Heart Rate Sensor Gas Sensor(MQ5) Light Sensor(P) Moisture Sensor Sound Sensor FireBird V 2560 Spark V Robot Fire Bird V P89V51RD2 adapter card Fire Bird V LPC2148 adapter card P89V51RD2 Development Board Raspberry-Pi 3 Micro SD card (16 GB) USB Adapter 2A NRF24L01 Zigbee Modules 100m range Zigbee Modules Adapter Metal-gear Servo Motors Servo Motor Based Gripper kit for the Fire Bird V robot Sharp GP2Y0A21YK0F infrared range sensor (10cm to 80cm) 50Kg Half Bridge Experiments Body Scale Load Cell Sensor HX711 Dual-Channel 24 Bit Precision A/D weight Pressure Sensor IIC/I2C Serial Interface Adapter Module LCD2004 Parelle LCD Display with IIC/I2C Interface Ai Thinker Node MCU-ESP8266 Development Board Male to Male Jumper wires 40 Pcs 20 Cm x3	

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		GL-12 830 Points Solderless Breadboard PCB Mounted passive Buzzer Module LM358P PDIP-8 High Gain Operational Amplifier (pack of 5 IC's) 1k Ohm 3590S Precision Multiturn Potentiometer Solar Panel Radar Sensor 3s 10 Amp BMS Ultrasonic Single USB Module 2600 mah cell Four ch cell holder Breadboard LDR Module Jumper Wire ESP32 5mm LED & USB LED Battery Level Indicator Non touch infrared temperature module Raspberry Pi 3 B+ Raspberry Pi 4 Desktop Kit Without Raspberry Pi 37 in 1 Kit Arduino UNO with Cable HC-08 2 Channel 5V Relay Module 300 RPM BO Motor Tactile Push Button Switch Assorted Kit 20 Cm M-M, M-F, F-F Jumper wire VGA to HDMI Convertor 1.54" OLED display Module 128 * 64 Blue	

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INTERNET FACILTIY

S.No.	Particulars	Requirements as per Norms (1:4 for Engg., 1:6 for Pharmacy/ HMCT/Arch./Applied Arts and 1:2 for MBA/MCA)		Availability	
1.	No. of Computer Terminals			1751	
2.	Hardware Specification				
	• Server/P-IV/Latest Configuration			1751	
3.	No of terminals of LAN/WAN			All Terminals 1751	
4.	Relevant Legal Software	Application	System	Application Details given below	System Details given below
5.	Peripheral(s)/ Printers			132	
6.	Internet Accessibility (in Kbps & hrs.)			1000-Mbps OFC Leased Line (SIS Networks Pvt Ltd Internet) & 30 Mbps RF Link (SIS Networks Pvt Ltd Internet), 24 Hrs. accessibility including Hostel.	

Description of the Item	Quantity
Servers:	
Internet	1000 Mbps OFC Leased Line (SIS Networks Pvt Ltd Internet) & 30 Mbps RF Link (SIS Networks Pvt Ltd Internet), 24 Hrs. accessibility including Hostel.
Computers For Students:	**1751**
Computers For Library:	**19**
Computer For Staff:	**60**
Laptops For Faculty:	**120**
Other Laptops:	**280**
Online UPS: 15 KV	**1**
Online UPS: 10 KV	**29**
Projector: LCD Projectors	**49**
Smartboard	**45**
Printer LaserJet:	**132**

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Scanners:	**10**
Extrnal Hard Disk (1 TB)	**10**
Pen Drives: 32 GB	**35**
Pen Drives: 64 GB	**25**

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DETAILS OF COMPUTER SOFTWARES

Relevant Legal Software • System Software	○ Windows 2003 Server ○ MS BackOffice 4.5 ○ NT Server 4.0 ○ Window 98 SE ○ Windows 2000 Server ○ Windows 2000 Professional ○ Windows XP Pro. ○ Windows Vista ultimate ○ SCO Unix 5.0.5 ○ Red Hat Linux 7.1,7.2 & 9.0 ○ Red Hat Enterpries Linux ES ○ Red Hat Enterpries Linux 5 Adv. Server ○ Mandrake Linux ○ SUSE Linux ○ Sun Solaris 8 & 10(x86)
• Application Software	○ MS Office 2000 & 2003 & 2007 enterprise ○ Star Office 7 (Open SW) ○ Open Office (Open SW) ○ Borland Turbo C/C++ Ver. 3.0/4.5 ○ Adobe PageMaker 6.5 ○ Adobe Acrobat Professional ○ Adobe Creative Suite 3 Master Collection ○ SUN Java Web Server ○ Norton Internet Security Pack 2002 ○ Norton System Works 2003 ○ Symantec Antivirus ○ Trend Micro Ent. Suite ○ KasperSky Internet Security 6.0 ○ PCCELIEN ○ McAfee AVSS ○ Macromedia Flash MX ○ Macromedia Studio MX ○ Oracle 9i, 10g ○ MySQL (Open SW)) ○ MSDN Academic Alliance 7.0 Win 32 Engg.
Project Development & Management	○ Visual Studio 6.0 Pro. &Ent. Version ○ Visual Studio .NET ○ Oracle Internet Developer Suite ○ Rational Enterprise Suite (Seed Pkg.) ○ Maya Unlimited 6.5 ○ Maya Unlimited 8.5 ○ cPanel& WHM 11 ○ PRAMATI STUDIO & SERVER (J2EE Development Tool)
• Others	**SOFTWARE HELD WITH EEE DEPARTMENT** 1. ETAP(5.5.6 Version) - Power System Simulation Software Modules : ○ Load Flow Studies ○ Short Circuit Analysis ○ Harmonic Analysis ○ Transient Analysis ○ Stability Analysis etc. 2. Lab View(8.5 Version) - Advance Instrumentation Software(Real Time Data Simulation Software)

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			Modules : ➢ Embedded Design ➢ Control Design and Simulation ➢ Image and Signal Processing ➢ Industrial Monitoring and Control ➢ Software Development ➢ Development Report Generation & Data Storage
	3.	PSIM(6.0 Version) -	Power Electronics □ With PSIM's interactive simulation capability, we can change parameter values and view voltages/currents in the middle of a simulation. It is like having a virtual test bench running on your computer. □ We can design and simulate digital power supplies using PSIM's Digital Control Module. The digital control can be implemented in either block diagram or custom C code. □ PSIM has a built-in C compiler which allows us to enter your own C code into PSIM without compiling. This makes it very easy and flexible to implement your own function or control methods. □ We can use the Thermal Module to calculate semiconductor device losses (conduction losses and switching losses) based on the device information from manufacturers' datasheet.
	4.	MAT LAB(6.1 Version)	-Advance Control System, Control Engg., Electrical Science, Circuit & Systems
	5.	LADSIM -	UEE Lab • LADSIM - Ladder Logic Editor and • Programmable Logic Controller Simulator • LADSIM is a fully-functional Ladder Logic • Editor and PLC Simulator that incorporates all • the basic functions used in PLC Programming

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Relevant Legal Software	**SOFTWARE HELD WITH MAEDEPARTMENT** **Mechanical CAD :** • AutoCAD 2000 & 2002 & 2008 • ProE Wild fire 5.0 • ProEngineer 2001 • Solid Edge • NX-7.0 • Ladsim • Bytronic (MAB) • PLC Cross Talk SW • CNC Train • AllenbradleyPLC s/w, • HMI S/W • 8052 microcontroller sw • Aristo Robot controller sw • Workspace • Esprit CAM • MATLAB • FMS SW
Application Software	○ MS BackOffice 4.5 ○ NT Server 4.0 ○ Window 98 SE ○ Windows 2000 Server ○ Windows 2000 Professional ○ Windows XP Pro. ○ Windows Vista ultimate ○ SCO Unix 5.0.5 ○ Red Hat Linux 7.1,7.2 & 9.0 (Open SW)) ○ Red Hat Enterpries Linux ES ○ Red Hat Enterpries Linux 5 Adv. Server ○ Mandrake Linux ○ SUSE Linux (OSS) ○ Sun Solaris 8 & 10(x86)
System Software	**SOFTWARE HELD WITH ECE DEPARTMENT** 1. Tanner 9.2 (S- Edit and L-Edit) 2. Maxplus-II 10.2 and Quartus II 2.2 (VHDL simulator and synthesiszer)from Altera 3. Xilinx 4.1(VHDL simulator and synthesizer) 4. FPGA Express(verilog simulator)/FPGA synthesizer) from Aldec 5. Orcad 9.1 (VHDL simulator) 6. Multisim 2001 7. Comsim 2001 8. MATLAB 6.1 9. Signal processing toolbox 5.1 10. Filter Design Toolbox 2.1 11. Simulink 4.1 12. DSP Blockset 4.1
System & Application Software	**Library** SoftLink **Accounts** Tally 6.3 eis

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