TRINITY INSTITUTE OF INNOVATIONS IN PROFESSIONAL STUDIES

Details of Labs / Workshops / Workstations Available

S. No.	Name of Laboratory	Branch	Major Equipment	List of Equipment added during previous year
1	Workshop	First Year Common Lab	Hand and Foot Shearing Machine, Snip, Power Hecksaw, Circular Saw, Wood Lathe, Shaper, Sheet rolling, Radial & Pillar Drilling, Centre Lathe 4-JAW CHUCK, Mallet Hammer, Bench Vice, Wire Gauge, Wooden Lathe Machine, Hand Rip Saw, Rasp File, Iron Jack Planer, Chisel, Arc Welding Machine, Gas Welding Machine, Electrode, Chipping Hammer, Scriber, Centre Punch, Divider, Calliper, Drill Tool, Tap Tool, Files, Hacksaw, Lathe Machine, Drilling Machine, Shaper Machine, Milling Machine, Grinding Machine, Vernier Calliper, Single Point Cutting Tool, Knurling Tool, Universal Surface Gauge	Consumable Items
2	Engineering Graphics Lab	First Year Common Lab	Drafting Board with Truffels, Models, etc.	Consumable Items
3	Chemistry Lab	First Year Common Lab	Analytical Balance, Fraction Weight Anchor, Water Bath, Hot Plate, Lab Oven, Digital PH Meter, Digital Calorie Meter, Glassware, Digital Turbidity Meter, Dessicator, Digital TDS Meter, Digital DO Meter, COD Digesters with glass parts, etc.	Chemicals, Lab Coats, Acid Proof Gloves
4	Physics Lab	First Year Common Lab	Newton Ring Setup, Katers Pendulum, Melde Method, Diffraction Grading, Optical Fibre Test, Carey Foster Test, Holding Electromagnet, Holding Platinum Thermometer, Sodium Lamps, Spectrometers, Prisms, Helium Neon Laser, Difraction Grating, etc.	Bar Magnets, CRO, Function Generator, Stand for Holding Electromagnet, Stefan Constant Setup, Energy Band Gap Apparatus, Stand for Holding Platinum Thermometer, Plano Convex Lens, Prisms, Electronic Weighing Scale
5	Engineering Mechanics Lab	First Year Common Lab	Impact Testing Machine, Digital Rockwell Machine, Universal Testing Machine, Centre Lathe Machine, Weights, Hangers, Spirit Level, Pulleys, Weighing Scale, Loads, Jib Crane Apparatus, Sets of Weights, Screw Jack Apparatus, Vernier Calliper, Wheel and Axle Apparatus, Worm and Worm Wheel Apparatus, UTM, IZOD Impact Test, Brinell Hardness Test, Models for IC Engines (Petrol & Diesel), Force Polygram Test, Mement of Inertia Test, Facial Test, Fiction Test, Fly Wheel Test, Simple and Compound Gear	Universal Force Table, Coefficient Of Friction Apparatus, Inclined Plane Apparatus, Sliding Box with Different Surfaces, Slotted and Conical Weights, Parallel Force Apparatus
6	Electrical Engineeirng Lab	First Year Common Lab	CRO, Function Generator, Single Switch & Two-way Switch Lamp, Training Kit Thevenin's Theorem & Norton's Theorem Training Kit, Superposition Theorem, Reciprocity Theorem Training Kit, Panel for Single Phase Transformer- O.C. & S.C. Test, Panel for measurement of 3-phase power using two wattmeter & Measurement of power factor, Resonance in a Series R-L-C & Parallel R- L-C Circuits Training Kit, 1-phase transformer, Panel for Speed Control of DC Shunt Motor, DC Shunt Motor, Voltmeter, Ammeter, Wattmeter, Panel for running & reversal of 3-phase induction motor, 3- phase induction motor, Three phase resistive load	
7	Electronics Devices Lab	First Year Common Lab	CRO, Function Generator, Bread Board Kits, Active and Passive Components Training Kit, Semiconductor Diode Kit, Static & Dynamic Resistance, Zener Diode Training Kit, Ractifier Circuit Kit, CB and CE Transistor kit, Logic Gates Training Kit	CRO, Function Generator & Consumable Items
8	Language Lab	Common	Computer Systems, Switch, UPS, Headphones	
9	Computer Graphics & Multimedia Lab	Computer Science and Engineering	Computer Systems, Switch, UPS	Computer Systems, Switch, UPS
10	Simulation & Modelling Lab	Computer Science and Engineering	Computer Systems, Switch, UPS	Computer Systems, Switch, UPS
11	Analog Electronics Lab	Electronics and Communications Engineering	FET (BFW-10), MOSFET (P-Channel, N-Channel), SCR (TYN 616), UJT (2N 2646), IC-741, 555 Timer, AM & FM Generator, PLL (LM565), Regulated Power Supply, Bread Board Kits	FET (BFW-10), MOSFET (P-Channel, N-Channel), SCR (TYN 616), UJT (2N 2646), IC-741, 555 Timer, AM & FM Generator, PLL (LM565), Regulated Power Supply, Bread Board Kits

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12	Electronics Instruments Measurement Lab	Electronics and Communications Engineering	Digital Multi-meter, Clamp Meter, Digital Frequency Meter, Universal Frequency Meter, DSO, Wave Analyzer, ADC (ADC0808), DAC (DAC0808), Regulated Power Supply, CRO, Function Generator, Bread Board Kit	Digital Multi-meter, Clamp Meter, Digital Frequency Meter, Universal Frequency Meter, DSO, Wave Analyzer, ADC (ADC0808), DAC (DAC0808), Regulated Power Supply, CRO, Function Generator, Bread Board Kit
13	Programming Lab "C"	Information Technology	Computer Systems, Switch, UPS	Computer Systems, Switch, UPS
14	Data Structures & Algorithm Lab	Information Technology	Computer Systems, Switch, UPS	Computer Systems, Switch, UPS
15	Software Engineering Lab	Information Technology	Computer Systems, Switch, UPS	Computer Systems, Switch, UPS
16	Digital Systems Design Lab	Electronics and Communications Engineering	Computer Systems, Switch, UPS	Computer Systems, Switch, UPS
17	Microprocessor and Microcontroller Lab	Computer Science and Engineering	Computer Systems, Switch, UPS	Computer Systems, Switch, UPS
18	Linux Lab	Computer Science and Engineering	Computer Systems, Switch, UPS	Computer Systems, Switch, UPS
19	Data Communication and Networking Lab	Information Technology	Computer Systems, Switch, UPS	Computer Systems, Switch, UPS
20	Algorithms Design and Analysis	Engineering and Technology	Turbo C ++ software (free/open source)	NA
21	Java Programming	Engineering and Technology	JDK latest version and version below 8,	NA
22	Software Engineering Lab	Information Technology	Computer Systems, Switch, UPS	Computer Systems, Switch, UPS
23	Digital Communication	Engineering and Technology	Oscilloscope- 20MHz- Dual channel/DSO, PCM Trainer kit, Jumper wires., MATLAB software	NA
24	Digital Signal Processing	Engineering and Technology	DSO (100MHz200 MHz,2 channels),DM 64X Media Development Kit, DSP Starter Kit, Digital video s\w Development board/ Matlab based	NA
25	Microprocessors and Microcontrollers	Engineering and Technology	Keil software / Logic Analyzer, Mixed Signal Oscilloscope , Cyberbot (M4) High Performance Robot Kit, EWB Suit, Micro Tutor University program for ARM Lab. Educational Practice Boards, NI ELVIS / PCI – 6251, NI FPGA Based Embedded control System	NA
26	Print Media Lab	ВАЈМС	Computer Systems, Switch, UPS, Printer	
27	Video and Audio Studio	BAJMC	Vision Mixer & Audio Mixer (Console), Microphones, DSLR Cameras, Video Camera, Lapel, Talk Back, Output Monitor, Teleprompter, Computer Systems	Vision Mixer & Audio Mixer (Console), Microphones, DSLR Cameras, Video Camera, Lapel, Talk Back, Output Monitor, Teleprompter, Computer Systems
28	Computer Lab	BALLB	Computer Systems, Switch, UPS, Printer	
29	Web Technologies	Computer Application	BROWSER	NA
30	IT LAB	Computer Application	MS OFFICE	NA
31	Information Security Lab	Computer Science and Engineering	Computer Systems, Switch, UPS	NA
32	Software Testing and QA Lab	Computer Science and Engineering	Computer Systems, Switch, UPS, HDD: 1 TB	NA
33	Wireless Communication Lab	Computer Science and Engineering/IT	Computer Systems, Switch, UPS, Spartan 3E Kit, Vertex 2 Pro Development Kit, CPLD Kit, Burner Kit, Free Scale	NA

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S. No.	Name of Laboratory	Branch	Major Equipment	List of Equipment added during previous year
34	Lab based on Elective I or II	Computer Science and Engineering/IT	Computer Systems, Switch, UPS	NA
	Advanced Computer Networks Lab	Computer Science and Engineering/IT	Computer Systems, Switch, UPS	NA
	Cryptography and Network Security Lab	Computer Science and Engineering/IT	Computer Systems, Switch, UPS	NA
37	Mobile Computing Lab	Information Technology	Computer Systems, Switch, UPS	NA
38	Machine Learning Lab	Information Technology	Computer Systems, Switch, UPS, HDD- 1TB	NA
	Ad hoc and Sensor Networks Lab	Information Technology/ECE	Computer Systems, Switch, UPS, WANET LAN, wireless router	NA
	Optical and Wireless Communication Lab	Electronics and Communications Engineering	Computer Systems, Switch, UPS, Spartan 3E Kit, Vertex 2 Pro Development Kit, CPLD Kit, Burner Kit, Free Scale	NA
41	Embedded System Lab	Electronics and Communications Engineering	Computer Systems, Switch, UPS	NA
42	Satellite and Antenna Lab	Communications Engineering	Computer Systems, Switch, UPS, Polarization kit with handle, Antenna with cable set (1.2GHz), Dual DC Power Supply, Conical horn antenna, Microwave Signal Generator(1GHZ-20GHz), USB Power sensor(4 GHz)	NA
43	Lab based on Elective I or II	Electronics and Communications Engineering	Computer Systems, Switch, UPS	NA