

LAB FACILITY

S.No.	Details of the Lab. created/strengthened	Major facilities added
1 DEPARTMENT OF BIO-TECHNOLOGY:		
i)	Molecular Biology and Genetic Engg. Lab.	MilliQ water purification system, Micro centrifuge, Platform Rocker II (GR2), High speed refrigerated centrifuge, GAS Chromatography, Vertical gel electrophoresis Unit
ii)	Bioinformatics and Computational Biology Lab.	HCL, Lenovo Flat Monitor, HP Flat Monitor, HCL server, Analytical and programming software
iii)	Animal Cell Culture Lab.	Liquid nitrogen tank Model 1X-35, Deep Freezers, Class-II, Biohazard Safety cabinet, Galaxy B Co2 incubator, Sunbeam Genset, Easy Pipetting Aid, Inverted Phase contrast microscope, Amaxa Nuclear fectin, Elisa Reader, Centrifuges, Chemidoc, Western Blot apparatus, Multi well fluorescence and Luminescence reader
2. DEPARTMENT OF CIVIL ENGINEERING:		
i)	Concrete and Highways Laboratory	Density Basket, Air Permeability apparatus, Cylindrical mould, Centrifuge extractor, Vicat Needle Apparatus
ii)	Strength of Materials Laboratory	Compression Testing Machine, Vickers Hardness Machine, Brinel Hardness Machine
iii)	Fluid Mechanics Lab.	Meta Centric Height, Tachometer
iv)	Survey Laboratory	Magellan GPS Explorist 500, Global Positioning System 12, Electronic Theodolite, Pristomatic compass, Theodolite with Aluminium stand, etc.
v)	Geo Technical Lab.	Director Shear, Uncombined Compression Test, Consolidation apparatus, California Bearing Ratio
2. DEPARTMENT OF COMPUTER SCIENCE & ENGG:		
i)	Entry Level Laboratory	HCL systems x 27 WIPRO x 4
ii)	Operating Systems Lab.	IBM Lenova Think Centre B33 x 30, HCL PC x 55 HP Laserjet 2005D
iii)	Systems Software and DBMS Lab.	Rational Rose x 3 25 KVA Zenelec UPS x 1

		IBM Lenovo ThinkCentre B33 x 30
iv)	Multimedia Lab.	Zeberonic & Philips Head phones Network accessories
v)	Microprocessor Lab.	8086 Trainer kit, ADC Add-on-card, DAC add-on card, 8253 Add-on-card, Stepper Motor Add-on-card, PLC Add-on-card, Traffic Light Controller Add-on-card, 8255 Interface Add-on-card, 8259 Interface Add-on-card, Cathode Ray Oscilloscope, 8051, Micro controller, Real Time Clock/Calendar Board, DC Motor Controller, etc.
3. DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGG:		
i)	DSP System Design Lab.	DCS 3100-24 Port Box T-switch, D-link DGS 10160 switches, O-General A/C 18 APTH. Online UPS 25 KVA, Lan-T-Lan trainer Kit, MG 102 4 mic input audio mixer, HCL System, etc.
ii)	Communication Lab.	TEKTRONIX TD 1012B, 100 MHz 2 channel, Digital Storage Oscilloscope, 2 Channel, 4Trace Oscilloscope Model : Caddo 804, Dual DC Regulated Power Supply, Dual Power supply systems Make, 10 MHz Function Pulse Generator, 30 MHz, 2 channel, 4 trace Oscilloscope Model, etc.
iii)	Linear and Digital IC Lab.	Digital System Simulator Kit, Cathode Ray Oscilloscope 30 MHz, Digital/Logic IC Trainer Kit, etc.
iv)	DSP Laboratory	CDMA DSSS Trainer Kit, 2 channel, CDMA DSSS Kit, IBM system, Lan Trainer Kit, HCL system, DSP TMS 230c6713, etc.
v)	Micro wave Lab.	DC-DC Fly-back converter kit, Klystron Power supply, Dual Trace Cathode Ray Oscilloscope, Optical fibre trainer kit, etc.
vi)	VLSI Lab.	Synopsis software, PC system, Altera VLSI Lab. package, Network Accessories, etc.
4. DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGG:		
i)	Electrical Machines Lab.	DC series motor with loading arrangement, Pole change induction motor. Double element wattmer, etc.
ii)	Electronics Lab.	Digital IC Trainer, Digital IC tester, Power Scope (CRO), Digital Storage Oscilloscope, etc.
iii)	Measurements & Control Lab.	30 MHZ, 2 channel, 4 trace Micro-controller based oscillo-scope, 10MHZ function pulse

		generator, Displacement measurement Trainer using LVDT, Synchro transmitter receiver trainer, Compensator design module, Decade resistance box 6 dial, decade capacitance box 6 dial, decade inductance box 6 dial
iv)	Power System Research Lab.	Mi Power Software Ver 6.0, Personal Computer x 21
5. INSTRUMENTATION AND CONTROL ENGINEERING:		
i)	Analog and Digital Lab.	Digital IC Trainer Kit, Cathode Ray Oscilloscope
ii)	Virtual Instrumentation Lab.	NI inverted pendulum, Server HCL computer, Upgrading of NI LABVIEW
iii)	Industrial Instrumentation Lab.	ECG Machine compatible to PC, Characteristics study of sensors,
iv)	Process Control Lab.	Computer (Core II duo), Hybrid tank set up

6. DEPARTMENT OF INFORMATION TECHNOLOGY:		
i)	Digital and System Design Lab.	Computer and Digital IC Trainer Kit, etc.
ii)	Microprocessor Lab.	8085, 8051, 8086, Microprocessor Trainer Kit and 8255, 8251-8253 Interface Board, etc.
iii)	Communication Systems Lab.	30 MHz, Dual Channel Oscilloscope, Linear IC Trainer Kit 002, etc.
iv)	Information Technology Lab. I & III	Thinckcentre M57E (9439B33), HCL infinity Pro systems,
7. DEPARTMENT OF MECHANICAL ENGG;		
i)	CAD Laboratory	LX Infinity Challengers 5125 Model, LX infinity Pro BL 1280 HCL 3 BVTN, Pro E wildfire 4.0, software etc.
ii)	CAM Laboratory	CNC Lathe –Hytech CLT 100, CNC Milling Hytech MT 250
iii)	Metrology Lab.	Coordinate measuring machine, Air compressor, etc.
iv)	Heat Power Lab.	Bomb Calorimeter, Lagged Pipe Apparatus, Redwood Viscometer, etc.
v)	Dynamic Laboratory	Multi Degree of freedom, IEI Fund
vi)	Centre for Composite materials	Compression Molding Machine, Computerized Universal Testing Machine, Digital Impact Tester, Digital Weighing Balance, Notch Cutter,

		Pion-on-disc wear tester,
vii)	Advanced Thermal Research Center	High end server with client machine, Techplot 360 software single user node, Thermocouple for temperature measurement, Digital temperature controller, Cenrifugal pump 0.5 HP, CCD monochrome camera

8. DEPARTMENT OF BUSINESS ADMINISTRATION:			
i)	Business Communication Lab.	SPSS software packages, AMOS software packages, HP and Wipro PCs, etc.	
ii)	Business Application Lab.		
iii)	National Research Centre for Consumerism		
9. DEPARTMENT OF COMPUTER APPLICATIONS:			
i)	Java Laboratory	25 KVA UPS Zenelac Power Systems UPS, with Exide Lite Batteries,, Intel Cor 2 DUO 2.4 GHz, PCS x 55, Intel Pentium 4 3.0 Gbz x 30, etc.	
ii)	Programming Language Lab.		
iii)	ORACLE Laboratory		
NATIONALLY RECOGNIZED RESEARCH CENTRES			
1)	TIFAC CORE in Network Engineering (DST funded Project)	Fluke Network and Management Lab	
		Central Computing Facility	
		IBM Centre for Excellence	
		Wireless sensor Network Lab	
		Intel Multicore architecture Lab	
2)	n-CARDMATH CENTRE	Core Group Research facility and work stations IBM X 3650 server (7979 – 12X)	
3)	DST-FIST for Department of Instrumentation and Control Engineering	process control lab and Biomedical lab	