ELECTRON DEVICES AND CIRCUITS LABORATORY

LIST OF MAJOR EQUIPMENTS

SL. NO	NAME OF THE EQUIPMENTS / SOFTWARE	QUANTITY
1	CRO (30MHz)	15
2	Signal Generator /Function Generators (3 MHz)	15
3	Dual Regulated Power Supplies (0 –30V)	15
4	Standalone Desktop PCs with SPICE Software	7
5	Dual Power Supply/ Single Mode Power Supply	15
6	Computer with HDL Software	15

PHOTO

INTEGRATED CIRCUITS AND DIGITAL LABORATORY

LIST OF MAJOR EQUIPMENTS

SL. NO	NAME OF THE EQUIPMENTS / SOFTWARE	QUANTITY
1	CRO (Min 30MHz)	15
2	Signal Generator /Function Generators (2 MHz)	15
3	Dual Regulated Power Supplies (0 –30V)	15
4	IC Tester	3
5	Standalone Desktops PC	15
6	SPICE Circuit Simulation Software Transistors, Resistors, Capacitors, Diodes, Zener Diodes, Bread Boards	7
7	IC Trainer Kit	15

PHOTO

NETWORKS, SIGNAL PROCESSING AND EMBEDDED LABORATORY

LIST OF MAJOR EQUIPMENTS

SL. NO	NAME OF THE EQUIPMENTS / SOFTWARE	QUANTITY
1	PCs with Fixed / Floating Point DSP Processors (Kit / Add-on Cards)	15
2	MATLAB with Simulink and Signal Processing Tool Box or Equivalent Software in Desktop Systems	10
3	Signal Generators (1MHz)	15
4	CRO (30MHz)	15
5	C / C++ / Java / Equivalent Compiler	30
6	Network Simulator like NS2/ NS3/ Glomosim/OPNET/ Equivalent	30
7	Standalone Desktops	30
8	Embedded Trainer Kits with ARM Board	10
9	Embedded Trainer Kits Suitable for Wireless Communication	10

COMMUNICATION LABORATORY

LIST OF MAJOR EQUIPMENTS

SL.NO	NAME OF THE EQUIPMENTS / SOFTWARE	QUANTITY
1	Kits for Signal Sampling, TDM, AM, FM,PCM, DM and Line Coding Schemes	10
2	CROs	15
3	MATLAB Software Package For Simulation Experiments	10
4	PCs	5

PHOTO

MICROPROCESSOR AND MICROCONTROLLER LABORATORY

LIST OF MAJOR EQUIPMENTS

SL. NO	NAME OF THE EQUIPMENTS / SOFTWARE	QUANTITY
1	8086 Microprocessor Trainer Kit with Power Supply	20
2	8051 Microcontroller Trainer Kit with Power Supply	15
3	Traffic Light Control Interfacing Card Compatible with 8086 & 8051 Trainers	5
4	Stepper Motor Control Interfacing Compatible with 8086 & 8051 Kits	5
5	Digital Clock Interfacing Board Compatible with 8086 & 8051 Kits	5
6	Keyboard and Display Interface Board Compatible with 8086 & 8051 Kits	5
7	Printer Interfacing Card Compatible with 8086 & 8051 Kits	5
8	A/D And D/A Interfacing Card Compatible with 8086 & 8051 Kits	5
9.	Serial And Parallel Interfacing Card Compatible with 8086 & 8051 Kits	5

VLSI DESIGN LABORATORY

LIST OF MAJOR EQUIPMENTS

SL. NO	NAME OF THE EQUIPMENTS / SOFTWARE	QUANTITY
1.	Xilinx FPGA Software	15
2.	Tanner Software	12 User License
3.	PCs	30

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OPTICAL AND MICROWAVE LABORATORY

LIST OF MAJOR EQUIPMENTS

SL.NO	NAME OF THE EQUIPMENTS / SOFTWARE	QUANTITY
1.	Trainer Kit for Carrying Out LED and PIN Diode Characteristics, Digital Multi Meter, Optical Power Meter	2
2.	Trainer Kit for Determining the Mode Characteristics, Losses in Optical Fiber	2
3.	Trainer Kit for Analyzing Analog and Digital Link Performance, 2 Mbps PRBS Data Source, 10 Mhz Signal Generator, 20 Mhz Digital Storage Oscilloscope	2
4.	Kit for Measuring Numerical Aperture and Attenuation of Fiber	2
5.	MM/SM Glass and Plastic Fiber Patch Chords with ST/SC/E2000 Connectors	2 Set
6.	Leds with ST / SC / E2000 Receptacles – 650 / 850 Nm	2 Set
7.	PIN Pds With ST / SC / E2000 Receptacles – 650 / 850 Nm	2 Set
8.	Microwave Test Bench at X Band to Determine Directional Coupler Characteristics	2
9.	Microwave Test Bench at X Band And Antenna Turn Table to Measure Radiation Pattern of Horn Antenna, 2 Horn Antennas	2

10.	Microwave Test Bench at X Band to Determine VSWR for Isolator and Circulator, VSWR Meter, Isolator, Circulator, E Plane Tee, H Plane Tee	2
11.	Microwave Test Bench at X Band, Variable Attenuator, Detector and 20 Mhz Digital / Analog Oscilloscope	2

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