

Government Polytechnic, Washim.
Electronics & Telecommunication Engg. Department.
List of Equipment

Analog Lab

S.N.	Name of Equipment	Qty.
1	DC Position Servo System.	1
2	Closed Loop Control System.	1
3	PID Control System.	1
4	Op-amp Application Active Filter.	1
5	Phase Controlled Using	1
6	Bench Top 4½ Digit Digital Multimeter.	2
7	Pulse Code Demodulation.	1
8	Hartly Code Demodulation.	1
9	Colpits Oscillator.	1
10	Logic Trainer Board.	1
11	Digital IC Trainer	1
12	4½ Digit HH Multimeter.	1
13	Linear IC Tester.	1
14	Electronic Circuit Lab Kit	1
15	Dual Trace CRO.	1
16	Modular Panel.	6
17	LIC Trainer Kit.	2
18	CRO. 60 MHz.	1
19	Amplifier Kit.	1
20	RF Single Tuned Amplifier.	1
21	Hartly Oscillator.	1
22	Colpitts Oscillator.	1
23	Voltage Controlled Oscillator.	1
24	Phase Shift Oscillator.	1
25	UJT as a Relaxation Oscillator.	1
26	RC Differentiating & Integrating Circuit.	1
27	Binary to Hexadecimal Decoder.	1
28	4-Bit Adder & Subtractor using IC 7483.	1
29	Flip-Flop Trainer.	1
30	Semi Conductor Diode Characteristics Kit.	1
31	FET Characteristics Kit.	1
32	MOSFET Characteristics Kit.	1
33	UJT Characteristics Kit.	1
34	Bridge Type FWR.	1
35	Half Wave Rectifier.	1
36	BJT Series Voltage Regulator.	1
37	Two Stage RC Coupled Amplifier.	1
38	35 MHz 2-Channel, 4-Trace Oscilloscope with Digital Readout.	1
39	20 MHz Oscilloscope with Component & Continuity Tester.	2
40	20 MHz Oscilloscope Function Generator & Frequency Counter.	1

41	Inovative Electronics Lab Hardware Workbench with minimum twenty Boards having pspice hardware verification havine complete hardware	3
42	Analog Lab with Multimeter Model Make Sciencetech Model No. ST 2612	3
43	Sciencetech Make Digital Lab ST - 2611	3

Advance Communication Lab

S.N.	Name of Equipment	Qty.
1	TDM Pulse Amplitud Modulation.	1
2	Pulse Code Modulation.	1
3	Pulse Code Modulation Reciever Kit.	1
4	Data Condition Carrier Kit.	1
5	Data Re-conditioning.	1
6	FM Transmitter.	1
7	Pulse Code Demodulation.	1
8	PSK Modulation.	1
9	FSK Modulation.	1
10	Pulse Code Modulation.	1
11	X- Band Micriwave Test Bench	1
12	Parabolic Antenna.	1
13	Klystron Mount X-2051.	1
14	Klystron tube 2K 25, S.	1
15	Horn Antenna.	1
16	Diamond D A60 Amplifier.	1
17	LSM Controller	1 Set
18	Servo Voltage Stabiliser.	1
19	Overhead Projector.	1
20	Microwave Test Bench	1 Set
21	Digital Modulation Experiment	1
22	Antenna Trainer.	1
23	CD Player Trainer.	1
24	Color TV Trainer.	1
25	Hi-Fi Amplifier.	1
26	Mobile Phone Trainer.	1
27	Air Conditioner 1.5 tones Samsung.	1
28	Sampling & Recostruction ST - 2101.	1
29	TDM Pulse Amplitude Modulation Demodulation Trainer.	1
30	TDM Pulse Code Modulation Transmitter Trainer ST - 2103.	1
31	QAM Trainer ST - 2112.	1
32	Pattern Generator.	1
33	TDM Pulse Code Modulation Reciever Trainer ST - 2103.	1
34	Delta Adaptive Delta & Delta Sigma Modulation Demodulation Trainer ST - 2105.	1
35	PAM PPM PWM Modulation & Demodulation Trainer.	1
36	Mobile Phone Trainer.	1
37	Advanced Fiber Optic Trainer.	1
38	Data Formatng & Carrier Modulation Transmitter Trainer ST - 2106.	1
39	Carrier Demodulation & Data Reformatng Reciever Trainer ST - 2107.	1

40	DLP Multimedia Projector with Media Card.	1
41	Color TV 29".	2
42	DC Power Supply 0-100V Linear Variable PS, 2A Scientific or equivalent	2
43	Audio Visual Lab Setup Make DigiTech Model Digi- 100	1
44	Function Generator Make Aplaab Model MSGSM	2
45	Oscilloscope Caddo Make 20 Mhz Two Channel (Dual Trace)	2
46	PLC Trainer with SCADA Option Make Anshuman Model : XPO PLC With LG PLC	1
47	Satellite Trainer Communication Kit with UPL Ink Transmitter	1

Computer Centre

1	LCD Multimedia Projector	1
2	8085 in Circuit Emulator.	1
3	VLC Machine Unit	1
4	Personal Laser Printer (HP-Laser Jet).	3
5	Wall Mount Rack (Val-Rack) for Lan Integrated Side Panel.	1
6	Intel Desktop- Windows - HP Compaq PC	7
7	HP 280 G3 Desktop PC	2
8	HP 280 G3 Desktop PC	4
9	Dell vostro 3470 Desktop PC	5
10	Vacuum Cleaner Eureka Forbes	1
11	Epson Perfection V39 Scanner	1
12	Ricoh SP 210 Laser Printer	1
13	Sound Calibration	1
14	Canon Laser Printer	1
15	Printer HP Laser Jet M233 dw	1
16	Embedded Linux Based Biometric Attendance System 0.5 GB RAM Make: oocl	1
17	Dell vostro 3470 Desktop PC	5
18	2 MP Bullet Dome Camera	2

Digital & Microprocessor Lab

S.N.	Name of Equipment	Qty.
1	Aplaab 1.1 GHz 8½ Digit Multimeter.	1
2	Eeprom Programmer.	1
3	Telephone Tester.	1
4	Universal Eeprom Model.	1
5	Digital Logic & Application Circuit Lab	1
6	SBC 51 8051 Based Micro Controller.	2
7	SMPS 03 Switch.	2
8	Cable & Connector Set.	2
9	Microprocessor Kits (8085).	1
10	8031 Micro Controller.	1
11	2 MHz AM/FM Function Pulse Generator.	2
12	Digital Trainer Kit.	1
13	Data Communication Trainer.	1
14	Modules for 8051 Micro Controller-SC - 01 8255 Study card with 50 pin FRC.	3
15	Modules for 8051 Micro Controller-SC-02 8255 Study card with 50 pin FRC.	3

16	Modules for 8051 Micro Controller-SC-03 8255 Study card with 50 pin FRC.	3
17	Modules for 8051 Micro Controller-SC-06 8255 Study card with 50 pin FRC.	3
18	Stepper Motor Controlled Card with Motor & 26 pin FRC IC - 08.	1
19	8051 Micro Controller Trainer.	3
20	Digital Lab,	1
21	-Modules	21
22	8085 Microprocessor Trainer, Model Microfriend Dyna - 85 M.	7
23	Micro Controller Embedded System Trainer Kit make Digitech Model Digi - 2135	1
24	8085 Microprocessor Training Kit	5
25	1. Wheat Stone Bridge Kit	48,49
26	2. Maxwell Capacitance Bridge	48,49
27	3. De Saut'y Bridge	48,49
28	4. Schearing Bridge	48,49
29	5. Operational Amplifier (Adder Scaller)	48,49
30	6. Maxwell Inductance Bridge	48,49
31	7. RLC Series & RLC Parallel	48,49
32	8. Zener Voltage Regulator	48,49
33	9. Multi Vibrator(Astable & Monostable)	48,49
34	10. Logic Gate Kit	48,49
35	11. Universal Gate Nand/Nor Gates	48,49
36	12. Code Conversion (Binary to Gray & G to B)	48,49
37	13. Code Conversion (BCD to Excell 3 Code)	48,49
38	14. Encoder/Decoder	48,49
39	15. Multiplexer/Demultiplexer	48,49
40	16. Flip/Flop Kit	48,49
41	17. Shift Register	48,49
42	18. 4 Bit Synchronous Binary Counter	48,49
43	19. Digital to Analog Converter	48,49
44	20. Analog to Digital Converter	48,49
45	21. Monostable Multivibrator(IC74121/74123)	48,49
46	22. UJT Characteristics	48,49
47	23. MOSFETC Characteristics	48,49
48	24. SCR Characteristics	48,49
49	25. TRIAC Characteristics	48,49
50	26. IGBT Characteristics	48,49
51	27. SCR Triggering (using UJT)	48,49
52	28. SCR Triggering (using IC74121)	48,49
53	29. Series Inverter	48,49

Power & Measurment Lab

S.N.	Name of Equipment	Qty.
1	Continuous Focus Microscope	1
2	Aplab 4½ Digit Multimeter.	6
3	OPEL make Over Head Projector	2
4	Displacing Measurement LVDT.	1

5	Angular Displacement.	1
6	Speed Measurement.	1
7	Strain Measurement.	1
8	Intensity Measurement.	1
9	Temperature Measurement.	1
10	Distance Measurement.	1
11	Liquid Flow Measurement.	1
12	Half Wave Full Wave Controlled Rectifier.	1
13	Forced Communication of SCR.	1
14	ABHIFI- 7012	1
15	ABHIFI- 7013-AB	1
16	ABHIFI- 73123	1
17	Digital Storage Oscilloscope 100 MHZ	1
18	Industrial Programmable Logic Controller & Motor drive training Kit	1
19	Linear IC Tester.	1
20	Instrumentation Trainer Model Ansh.	1
21	Dual Trace CRO 20 MHz.	3
22	Integrated Thyristor Controller.	1
23	HAS Make PCB Manufacturing Equipment	1
24	SSB/DSB Amplitude Modulation Transmitter.	1
25	SSB/DSB Amplitude Modulation Receiver.	1
26	Instrumentation Trainer.	1
27	Lead Free Soldering Station.	1
28	Analog Multimeter.	5
29	PCB Shearing Machine.	1
30	Analog Panel Meter.	10
31	SCR Characteristics Kit.	1
32	Diac Characteristics Kit.	1
33	Triac Characteristics Kit.	1
34	Inverter Trainer NVSI - 6001.	1
35	UPS Trainer NV - 7003.	1
36	SMPS Trainer NV - 7002.	1
37	VLSI Development Platform with wireless communication.	1
38	Strain Gauge Trainer ST - 2304.	1
39	DSO Demonstration Trainer ST - 2658.	1
40	LVDT Trainer ST - 2303.	2
41	Single Phase Controlled Rectifier with Cosine Firing Scheme.	1
42	Temperature Transducer Trainer.	1
43	Potentiometric Error Detector.	1
44	Optical Transducer Trainer ST - 2301.	1
45	Binary Variable Data Generator.	4
46	CPLD Development Platform.	1
47	Single Phase Controlled Rectifier with Ramp Comparator Firing Scheme.	1
48	Modules for Embedded Trainer IC - 02.	1
49	IC - 03 12 Bit Analog to Digital Converter Card ADC - 574 with 26 pin FRC IC - 03.	1

50	Control System Lab NVIS 3000 Control Sys. Trainer.	1
51	Rotary Encoder make Neeshionics.	1
52	Analog Lab ST - 2612.	2
53	-Modules.	-15
54	Analog Lab ST - 2612 -Modules.	-11
55	Measurement of Inductive Pickup.	1
56	Measurement of Light Intensity by Photovoltaic Cell.	2
57	Measurement of Speed by Photo Electric Pickup.	1
58	Logic Control Simulation Trainer.	1
59	Measurement of Speed by Proximity Type Sensor.	1
60	I/O Simulation Trainer.	1
61	Measurement of Speed by Electromagnetic Pickup.	1
62	Measurement of Speed by Linear Displacement by Linear Motion Potentiometer.	1
63	Measurement of Angular Displacement by Servo Potentiometer.	1
64	Measurement of Capacitive Pickup.	1
65	Measurement of Load Using Load Cell.	1
66	Embedded Trainer with Cross Compiler for SI Family.	1
67	IC - 0809 Card with 26 pins FRC.	1
68	DC Regulated Power Supply Make Sincom, S - 3021.	10
69	DC Power Supply 0-30V Linear Variable PS, 2A Scientific or equivalent	10
70	Measurement of Light Intensity by Photovoltaic Cell	1
71	Measurement of Speed by Photo Electric Pickup	1
72	Measurement of Pressure using Pressure Cell	1
73	Measurement of Speed by Proximity type Sensor	1
74	Measurement of Light Intensity by L.D.R.	2
75	Measurement of Speed by Electromagnetic Pickup	1
76	Measurement of Linear Displacement by Linear Motion Potentiometer	1
77	Measurement of Angular Displacement by Servo Potentiometer	1
78	Measurement of Capacitive Pickup	1
79	Measurement of Load using Load Cell	1
80	Temperature Transducer Trainer	1
81	PID Controller Trainer Sciencetech Make Model No. ST 2451	1
82	Handy Scanner	1
83	Power Electronic Lab Model Sciencetech Model ST 2712	2
84	External DVD Writer L.G. Make	1
85	Study of Synchro Transmitter	1
86	Potentiometer as a Error Detector	1
87	Relay Control Trainer ST 2305	2
88	Power Electronic Lab Model ST 2712	2
89	L.V.D.T.Trainer	2
90	Strain Gauge Transducer Trainer	2
91	Temperature Transducer Trainer	2
92	Measurement of Strain Using Strain Cantilever	1
93	Measurement of Inductive Pickup	1
94	PLC Based Sequential ON-OFF Control of Motor Lamps Indication (PM31- Application Panel for Sequential Motor Control)	1

95	Siemens System (Siemens PLC Trainer)	1
96	Micro Allen Bradley PLC Trainer	1
97	PLC Based VFD Control System	1
98	P,PI,PID Control System Temperature Control (PID Temperature Controller)	1
99	PCB Designing Prototyping Machine	1

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