

Sri Sukhmani Institute of Engineering & Technology
Derabassi (Punjab)
Department of Electrical Engineering

List of Equipments of Basic EE & ECE lab & Machine lab

S.No.	Name of Equipment with Specification	Quantity	Cost (Rs.)
1	A.C Capacitor start squirrel cage induction motor with loading arrangement 0.5 H.P	1	5000/-
2	A.C.Slip induction motor 3 H.P 415V,3 Phase,1440 rpm	1	10000/-
3	A.C Squirrel cage induction motor 2 H.P, 3Phase 415 V	2	10500/-
4	Induction Motor 2 H.P ,3 Phase with loading arrangement	1	5247/-
5	Induction Motor 1 Ph , 1 HP, 230 V with DOLL Starter	1	3200/-
6	Slipring Induction Motor 2 B.H.P with starter	1	11000/-
7	Induction Motor with loading Arrangement 3 Phase	1	750/-
8	D.C Generator 1 KW,1500 r.m.p, 230V series wound	1	13500/-
9	D.C Generator 1 KW,1500 r.m.p, 230V shunt wound	1	13500/-
10	D.C Generator compound 1 KW,230V,1500 r.p.m	1	14500/-
11	D.C Motor Compound with D.C Starter & interpoles with NV & OV Protection	1	24600/-
12	D.C Motor shunt 2 H.P,230V,1500 r.p.m with DC starter	1+1+1	13500/- ,15900/- ,16500/-
13	D.C Motor Starter (3 point)	1	1200/-
14	D.C Motor Series with Interpoles No Load speed	1	9850/-
15	D.C. Shunt Motor 2 H.P, 220 V,8 A, 1440 r.p.m	1	19450/-
16	Syn. Generator Set 3 KW	3	32000/-
17	Syn. Motor Generator Set 1.5/2 KW Sailent	2	26000/-
18	Syn. Generator Saltent pole,3 Ph.,4 Wire , Set 2 KVA with Damper Winding , Exciter 230 V DC with field regulator	1	24600/-
19	Rotating Electrical Machine Trainer with power supply and load	1	70000/-
20	Transformer (230/115 V, 1 KVA)	2	3350/-
21	Transformer 2KVA, 1 Phase	3	5000/-
22	Transformer with tapping , 1 KVA	2	3650/-
23	Rectifier Unit 50 Amps, SCR Controlled	1	49000/-
24	Rectifier Unit 415 V , 3 ϕ ,50 Hz Output 250 V DC , 7.5 KW	1	17400/-
25	Parallel Operation Panel	1	8000/-
26	Phase sequence meter	3	400/-
27	Power factor meter 3 Phase portable	2	2200/-
28	Energy Meter Single Phase (2.5-10A)	1+1	625/-,460/-
29	Frequency Meter (0-99 Hz) Digital	1	1150/-
30	Frequency Meter (0-99 Hz) Analog	1	1150/-
31	Ammeter 2.5/5A MC type	4	612
32	Ammeter 7.5/15A MC	4	612/-
33	Ammeter MC (0 - 2 A)	4	1650/-
34	Ammeter MC (0 - 5/10 A)	4	1350/-
35	Ammeter MC (0 - 5A)	10	1250/-
36	Ammeter MC (0 - 15/30A)	4	1350/-

37	Ammeter portable 0.5/1A MC	4	612/-
38	Ammeter MI (0 - 0.5 A)	2+2	780/-,1850/-
40	Ammeter MI (0 - 15/30 A)	2+1	1250/-1350/-
41	Ammeter MI (0 - 2A)	4	1650/-
42	Ammeter MI (0 - 5/10A)	9	1850/-
43	Ammeter MI (0 - 5A)	4	1612/-
44	Ammeter MI 0 - 2A Portable	4	1650/-
45	Votmeter MC (0-150/300 V)	2+2	780/-,1250/-
46	Votmeter MC (0-250/500 V)	2	1250/-
47	Votmeter MC (0-75/150 V)	2+2	780/-,1250/-
48	Votmeter MI (0-15/30 V)	2	1150/-
49	Votmeter MI (0-150/300 V)	9	1650/-
50	Votmeter MI (0-250/500 V)	8	1150/-
51	Votmeter MI (0-75/150 V)	2	1150/-
52	Wattmeter (0-30 W) L.P.F.	2	2800/-
53	Wattmeter (0,5 A, 230 V) LPF (0.05 - 0.85)	2	1650/-
54	Wattmeter (0-9000 W) U.P.F.	3	3000/-
55	Wattmeter UPF (125/500 V,5/10 A)	4	
56	Wattmeter UPF (62.5 /250 V,2.5/5 A)	4	
57	Dynamometer Wattmeter (5/10A,300/600V) UPF	6	
58	Auto Transformer (0 - 15A,1 Phase,220V)	4	4250/-
59	Auto Transformer (0 - 15A,3 Phase,415V)	2	12350/-
60	Auto Transformer (0 -28A, 3 Phase,415V)	1	19500/-
61	Auto Transformer (0 - 2A,1 Phase ,260V)	2	1350/-
62	Auto Transformer (0-8A,1 Phase,240V)	1	
63	Auto Transformer 3 Phase ,15A	2	7800/-
64	Battery 6V	1	285/-
65	Battery Charger (0-24V,6 A)	1	4000/-
66	Capacitive load 3 Phase,10A	2	14000/-
67	Inductive Load 3 Phase ,10A	2	14000/-
68	Loading Rheostat (1 Phase ,3.5KW,230V)	3	6250/-
69	Loading Rheostat (3 Phase ,3.5KW,415V)	2	7500/-
70	Resistance (10 OHM,10A)	6	1850/-
71	Resistance (1600 OHM,0.4A)	1	500/-
72	Resistance (210 OHM,1.8A)	4	850/-
73	Resistance (210 OHM,1A)	5	850/-
74	Resistance (40 OHM,1.8A)	1	
75	Resistance (500 OHM,1A)	4+2	985/-,950/-
76	Resistance (75 OHM,2A)	2	250/-
77	Rheostat 20 OHM,10 A	2	
78	Rheostat 210 OHM, 1.8 A	4	480/-
79	Rheostat 45 OHM ,5 A	4	480/-
80	Multimeter Analog	4	500/-
81	Multimeter Digital	6	960/-,1850/-,2300/-
82	Tachometer (Contact Type)	2	3200/-
83	Tachometer (Non Contact Type)	2	1950/-
84	Tong Tester Digital (0-10/25/50/100/250/500/1000 A)	1	3700/-

85	Soldering Iron (125 W)	1	148/-
85	Drill Machine	1	2275/-
86	Insulation Tester (0 - 100 M Ω , 500 V)	1	1770/-
87	Insulation Tester (0 - ∞ OHM)	1	3350/-
88	Earth Tester (0-50 Ω)	1	960/-
89	Earth Tester (0-100 Ω)	1	960/-
90	Induction Coil (Choke)	4	75/-
91	Star Delta Starter	1	2620/-
92	Stop watch (0-30 sec)	1	250/-
93	D.C. Drive (Electronics Controller),15 A	1	3000/-
94	Basic Logic Gate Trainer Kit	4	2600/-
95	PN Junction Diode Charterstics	4	5160/-
96	BJT Charterstics	4	6800/-
97	LVDT	2	15000/-
98	MI instrument attraction Type & Repulsion Type	2	1780/-
99	PMMC instrument	2	1780/-
100	Dynamometer Type MC instrument	2	

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Department of Electrical Engineering

List of Equipments of Power Electronics Lab

S.No.	Name of Equipment with Specification	Quantity	Cost (Rs.)
1	Mid - point Cycloconverter	3	18990/-
2	SCR Jones Chopper	3	5300/-
3	SCR Series Inverter	3	8200/-
4	Speed Control of A.C Induction Motor	3	14000/-
5	Speed Control of D.C Motor	3	3890/-
6	SCR V - I Chacteristics	4	2190/-
7	UJT Charateristics & Relaxation Oscillators	4	1710/-
8	SCR 1 - ϕ Full - wave bridge rectifier	3	8750/-
9	Free - Wheeling diode Apparatus	2	6000/-
10	1 ϕ Mc-Murray Inverter	3	8200/-
11	Morgon's chopper	1	4800/-
12	Parallel Inverter using SCR	1	7800/-
13	Phase Control (AC) Circuit Trainer Kit	1	
14	Half wave full wave trainer kit using SCR	2	

List of Equipments of Power System Lab

S.No.	Name of Equipment with Specification	Quantity	Cost (Rs.)
1	Transformer oil test machine	1	13750/-
2	Complete Experiment Set upto draw Characteristics of Non Directional electromechanical OverCurrent & Earth Fault, 1 ϕ Relay	1	24000/-
3	Complete experiment set up to study Over Current Relay Static type and draw characteristics.	1	22800/-
4	Complete experiment set up to draw characteristics of bimetal Miniature circuit breaker (MCB)	1	18000/-
5	Complete experiment set up to study under voltage relay Static type and draw characteristics	1	28000/-

**Sri Sukhmani Institute of Engineering & Technology
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Department of Electrical Engineering**

List of Equipments of E TAP Lab

S.No.	Name of Equipment with Specification	Quantity	Cost (Rs.)
1	E TAP power system ver 4-3 user LAN PSCAD/EMT DC-45 user SPARD-1user	1	345000/-

***Sri Sukhmani Institute of Engineering & Technology
Dera Bassi (Punjab)***

Department of Applied Sciences & Humanities

List of Equipment Chemistry Lab

S no.	Name of Equipment	Quantity
1.	Oven	1 pc.

2.	Muffle Furnace	1 pc.
3.	Distillation Set	1 pc.
4.	Bomb Colorimeter	1 pc.
5.	Electronic Balance	1 pc.
6.	Physical Balance	2 pcs.
7.	Pen sky Flash Point Apparatus	1 pc.
8.	Water Bath	2 pcs.
9.	Conductivity Meter	4 pcs.
10.	PH Meter (digital)	4 pcs.
11.	Photo colorimeter	2 pcs.
12.	Dessicator	6 pcs.

***Sri Sukhmani Institute of Engineering & Technology
Dera Bassi (Punjab)***

Department of Applied Sciences & Humanities

List of Equipment Physics Lab

S no.	Name of Equipment	Quantity
1.	Spectrometers	2 pc.
2.	Laser Tubes	2 pc.
3.	Zener Diode Kit	4 pc.
4.	Electric Vibrator	2 pc.
5.	Digital Multi meter	3 pc.
6.	Vernier Calliper	3 pc.
7.	Solar Electric Cell	1 pc.

8.	Band gap of PM Junction diode	1 pc.
9.	PM junction diode Apparatus	2 pc.
10.	Ultrasonic diffraction Apparatus	1 pc.
11.	Photo Electric Cell	1 pc.
12.	Magnetic field of a Circular Coil	1 pc.
13.	Michelson- Morley Apparatus	1 pc.
14.	Laser beam Characteristics	1 pc.
15.	Diffraction Laser	1 pc.
16.	Numerical Aperture of O/F	1 pc.
17.	Attenuation of Single mode fibre Apparatus	1 pc.
18.	To Study the susceptibility of FeCl ₃ by Quinikes Method	1 pc.

SRI SUKHMANI INSTITUTE OF ENGINEERING & TECHNOLOGY

Equipment Available In Different Labs In Mechanical Engineering Department

1/2nd Sem.

S.No.	Lab Name	Equipment
1	COMPUTER GRAPHICS LAB (2)	Received 20 computer in lab but wiring work is pending

3rd sem. Mechanical

S.No.	Lab Name	Equipment
1	Strength of Materials-I Lab	1. Torsion testing machine

		<ol style="list-style-type: none"> 2. Brinell Hardness testing machine 3. Universal testing machine 4. Impact testing machine 5. Fatigue testing machine 6. Rockwell testing machine
2	Theory of Machines Lab	<ol style="list-style-type: none"> 1. Static and dynamic balancing apparatus 2. Journal bearing apparatus 3. Epicyclic gear train holding torque apparatus 4. Whirling of shaft Apparatus 5. Motorised governor Model 6. Motorised gyroscope 7. Compound gear train
3	Applied Thermodynamics -I Lab.	<ol style="list-style-type: none"> 1. Model of two stroke petrol engine 2. Model of four stroke diesel engine 3. Model of Cochran boiler 4. Model of steam engine 5. Model of moped 6. Two stroke air compressor test rig 7. Multi cylinder petrol engine test rig 8. Single cylinder diesel engine test rig 9. Babcock and Wilcox boiler model 10. Lancashire boiler model 11. Digital planning meter <p>Model of separating calorimeter</p>
4	Manufacturing Process – I Lab.	<p>(A).FOUNDRY SHOP</p> <ol style="list-style-type: none"> 1.Moulding equipment 2.Pit furnace 3.Moulding tools 4.Pouring equipments 5. Sand testing equipment a) Universal sand strength machine b) Permeability meter c)Clay washer d) Mould hardness tester

		e) core hardness tester f) moisture tester g) core oven h) sieve shaker with pan i) sand sampler (B) WELDING SHOP 1. welding equipment like arc welding 2. Resistance welding equipment like spot welding and cutting equipment 3. T.I.G. ,M.I.G., Gas welding
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4th sem

S.No.	Lab Name	Equipment
1	Engineering Materials & Metallurgy lab	1. Jominy end quench apparatus 2. Specimen mounting press 3. Digital muffle furnace 4. Polishing machine 5. Abrasive cutting machine 6. Bench grinding machine 7. Metallurgical binocular microscope 8. Hot drier 9. Specimen box
2	Fluid Mechanics-I Lab	1. Flow through venturimeter 2. Orifice meter and Rota meter 3. Met centric height apparatus 4. Orifice and mouth pieces 5. Reynolds apparatus 6. Bernoulli apparatus 7. Loses in the pipe fitting and sudden enlargement and contraction 8. Pit tot tube set 9. Loses due to friction in pipeline 10. Notch apparatus
3	Manufacturing Process-II Lab	MACHINE SHOP 1. Lathe machine

	2. Drilling machine 3. Milling machine 4. Tool grinder 5. Power hexa 6. Shaper 7. Capstan lathe
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5th sem

S.No.	Lab Name	Equipment
1	Heat Transfer Lab.	1. Heat transfer through natural convection 2. Heat transfer in forced convection 3. Stefan baltzman apparatus 4. Shell and tube heat exchanger 5. Double pipe heat exchanger 6. Thermal conductivity of metal rod 7. Dropwise / Film wise condensation 8. Heat pipe demonstration
2	Automobile Engineering lab	1. Wiring system 2. Steering gear System 3. Tool box 4. Hydraulic jack 5. Hydraulic brake system 6. Fiat chassis 7. Transmission system 8. Cooling system 9. Automobile shop tool 10. Transparencies 20 no's
3	Mechanical Measurement and Metrology Lab.	1. Tool maker microscope 2. Projector 3. Profile projector 4. Surface plate 5. Digital vernier caliper 6. Micro meter 7. Digital micrometer 8. Height guages 9. Stroboscope 10. Dial guages

		11. Pressure guages 12. Sine bar 13. Slip guages
4	Numerical Methods in Engg Lab	C++ program .in 18 computers
5	Computer Aided Drafting Lab	1. 20 computers in lab 1. One UPS in lab Auto Cad Software, Mechanical Inventor ,CATIA

6th sem

S.No.	Lab Name	Equipment
1	Refrigeration & Air Conditioning Lab	1. Experimental refrigeration test rig 2. Experimental air conditioner test rig 3. Experiment ice plant tutor 4. Electrolux refrigerator 5. Sectional cut model for rotary rotary centrifugal compressor 6. Sectional cut model for hermetically sealed compressor capacity 1.5 ton 7. Refrigeration and air-conditioning sectional cut model control board 8. Sectional cut model for condenser cooling coil set 9. Sectional cut model for emersion type condenser/evaporator
2	Fluid Machinery lab	1. Francis turbine test rig 2. Centrifugal Boiler test rig 3. Pelton wheel turbine 4. Centrifugal pump 5. Hydraulic ram 6. Digital tachometer
3	Industrial Automation and Robotics lab	1. Basic pneumatic system 2. Compressor 3. Robotics arm

S.No.	Lab Name	Equipment
1	CAD /CAM Lab	1. CNC Trainer Lathe M/C
2	Mechanical Vibrations Lab.	1. Universal vibration apparatus
3	Project Lab	<ol style="list-style-type: none"> 1. Pneumatic spray painting system 2. Pneumatic hydraulic lift 3. Manual feed swiveling 4. Solar water heater 5. Parabolic solar concentrator 6. Concept of anti lock braking system and its fabrications 7. Fabrication of a profile cutter 8. Solar tracker 9. Digital drill 10. Fabrication of head light system 11. Design and fabrication of CNC control of lathe tool bit for 1 degree of freedom 12. Digital fuel indicator and metering device

WORKSHOP

Machine Shop

S.NO.	EQUIPMENT NAME	
1	Lathe M/C (04)	
2	Lathe M/C 6'6" (04)	
3	Milling M/C (01)	
4	Power Saw (01)	
5	Shaper M/C (01)	
6	Capstan M/C (01)	
7	Bench Drilling M/C (01)	
8	Pillar Type Drilling M/C (01)	
9	Bench Grinder (01)	

10	Portable Drilling M/C (01)	

FITTING SHOP

S.NO.	EQUIPMENT	
1	Bench Drilling M/C	

SMITHY SHOP

S.NO.	EQUIPMENT	
1	Electrical Blower (3)	
2	Open Hearth Furnace (2)	

FOUNDRY SHOP

S.NO.	EQUIPMENT	
1	Electrical Blower (5)	
2	Bench Drill M/C	
3	Bench Grinder	
4	Rapid Moisture Tester	
5	Clay Washer	
6	Universal Strength M/C	
7	Sheeve Shaker	
8	Permeability Meter	
9	Core Hardness Tester	
10	Sand Rammer	
11	Weighting Balance 5kg	
12	Mould Hardness Tester	
13	Core Oven 14"X14"	

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CARPENTRY SHOP

S.NO.	EQUIPMENT	
1	Universal Wood Working M/C (01)	
2	Bench Drilling M/C (01)	

SHEET METAL SHOP

S.NO.	EQUIPMENT	
1	Hand Sheering M/C (01)	
2	Portable Drilling M/C (01)	

WELDING SHOP

S.NO.	EQUIPMENT	
1	Spot Welding (01)	
2	Arc Welding (01)	
3	Gas Welding (01)	
4	Bench Drilling M/C (01)	
5	MIG Welding	
6	TIG Welding	

**SRI SUKHMANI INSTITUTE OF ENGINEERING & TECHNOLOGY
DERA BASSI (PUNJAB)**

**ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT
MICROWAVE LAB (EC-310)**

List of Equipments

S.NO.	Name Of Item/Equipment	Date Of Purchase	Lab	Purpose	Quantity
1.	CVT(2KVA)	10/03/2000	MW LAB	For Conduct of Practicals	01
2.	Digital CRO 40 MHZ	07/11/2001	-Do-	-Do-	01
3.	Compact MW Lab Kit (VX-2001)	11/09/2001	-Do-	-Do-	04
4.	Multimeter	12/09/2006	-Do-	-Do-	01
5.	Compact MW Lab Kit (VX-2001)	02/03/2007	-Do-	-Do-	01

**SRI SUKHMANI INSTITUTE OF ENGINEERING & TECHNOLOGY
ELECTRONICS & COMMUNICATION DEPARTMENT
LAB: E&I, LIC**

List of Equipments

S.NO	Name of Equipment	Date of Purchase	Lab	Purpose	Quantity
1	CVT 1KVA	-----	LIC/E&I	Conduct of Practicals	03
2	Induction Box 1mH	-----	-do-	-do-	05
3	Induction Box 100mH	-----	-do-	-do-	05
4	Audio function Generator	12/06/98	-do-	-do-	10
5	Battery Eliminator	12/06/98	-do-	-do-	07
6	Transistor Biasing Kit	12/06/98	-do-	-do-	01
7	CRO 20 MHZ	12/06/98	-do-	-do-	08
8	FET Kit	12/06/98	-do-	-do-	01
9	High Voltage Stabilized Power Supply	12/06/98	-do-	-do-	07
10	Digital Multimeters	12/06/98	-do-	-do-	09
11	Analog Multimeters	12/06/98	-do-	-do-	10
12	Phase shift Oscillator Kit	12/06/98	-do-	-do-	02
13	Logic gate Circuit Trainer Small	12/06/98	-do-	-do-	08
14	D To A Converter	20/06/98	-do-	-do-	03
15	Astable Multivibrator Kit 555	20/06/98	-do-	-do-	01
16	Monostable Multivibrator Kit 555	20/06/98	-do-	-do-	01
17	Operational Amplifier Kit	20/06/98	-do-	-do-	09

18	Decade Resistance Box	07/07/98	-do-	-do-	04
19	CRO 10 MHZ	17/07/98	-do-	-do-	03
20	Step down Transformer	28/07/98	-do-	-do-	03
21	Wein-Bridge Oscillator Kit	02/11/98	-do-	-do-	01
22	A to D Converter	15/12/98	-do-	-do-	02
23	Kit for 555 Timer Circuit	12/08/99	-do-	-do-	03
24	Monostable Multivibrator Kit 74121/123	23/08/99	-do-	-do-	03
25	Kit for Different Noise Sources	25/03/2000	-do-	-do-	03
26	Kit for Current/Voltage Booster	08/02/2000	-do-	-do-	03
27	Kit for VCO type Digital Volt meter	08/02/2000	-do-	-do-	03
28	Kit for Phase Lock Loop	08/02/2000	-do-	-do-	03
29	Common Base transistor Characteristic	06/09/2001	-do-	-do-	08
30	Common Emitter transistor Characteristic	06/09/2001	-do-	-do-	08
31	FET Characteristic kit	06/09/2001	-do-	-do-	08
32	Regulated power supply	27/09/2001	-do-	-do-	08

**SRI SUKHMANI INSTITUTE OF ENGINEERING & TECHNOLOGY
DERA BASSI (PUNJAB)
ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT**

**LAB: DIGITAL & DCLD.
List of Equipments**

S.NO	Name of Equipment	Date of Purchase	Lab	Purpose	Quantity
01	Shift register using Flip Flop	15/12/98	DE/DCLD	Conduct of Practicals	02
02	Decade Counter Kit	15/12/98	-do-	-do-	02
03	1 line to 16 line Demultiplexer	12/08/99	-do-	-do-	02
04	16 line to 1 line Multiplexer	12/08/99	-do-	-do-	02
05	Four Bit Binary Full adder/subtractor	23/08/99	-do-	-do-	02
06	Four Bit Binary to Gray Code Converter Kit	26/10/99	-do-	-do-	03
07	Logic Trainer Kit ME 726	26/10/99	-do-	-do-	08
08	Shift register Kit	26/10/99	-do-	-do-	03
09	Arithmetic & Logic Unit Kit	26/10/99	-do-	-do-	03
10	Logic gate Circuit trainer Kit	03/11/2000	-do-	-do-	08

**SRI SUKHMANI INSTITUTE OF ENGINEERING & TECHNOLOGY
DERA BASSI (PUNJAB)
ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT**

**LAB: EDC & ANALOG ELECTRONICS
List of Equipments**

S.NO	Name of Equipment	Date of Purchase	Lab	Purpose	Quantity
1	Half Wave, Full Wave Rectifier Kit	21/07/99	EDC/AE	Conduct of Practicals	02
2	FET Kit for common source	12/08/99	-do-	-do-	02
3	Regulated Power Supply	12/08/99	-do-	-do-	03
4	Transistor Biasing Kit	12/08/99	-do-	-do-	02
5	Voltage & Current Feedback Amplifier	28/08/99	-do-	-do-	02
6	m-Derived Filter	26/09/99	-do-	-do-	03
7	Constant-K Filter	26/09/99	-do-	-do-	03
8	CRO 20 MHZ	28/09/99	-do-	-do-	05
9	Transformer Coupled Amplifier	26/10/99	-do-	-do-	03
10	Zener Diode Characteristic Kit	06/09/01	-do-	-do-	06
11	CRO 30 MHZ	23/10/01	-do-	-do-	03
12	Digital Multimeter	23/10/01	-do-	-do-	09
13	Complimentary Symmetry Amplifier Kit	30/10/01	-do-	-do-	06
14	Two Stage RC Coupled Amplifier	30/10/01	-do-	-do-	06
15	Function Generator	12/11/01	-do-	-do-	06
16	Ripple Factor Apparatus	13/11/01	-do-	-do-	06
17	Capacitive, Inductive & Transformer Coupled Amplifier Kit	24/03/04	-do-	-do-	06
18	Class-A Amplifier Kit	24/03/04	-do-	-do-	06
19	Class-B Amplifier Kit	24/03/04	-do-	-do-	06
20	Class-C Amplifier Kit	24/03/04	-do-	-do-	06
21	Class-AB Amplifier Kit	24/03/04	-do-	-do-	06
22	Class-B Push pull amplifier	24/03/04	-do-	-do-	03
23	Complimentary Symmetry Amplifier Kit(Old Version)	24/03/04	-do-	-do-	01
24	Transistor Series Voltage Regulator	24/03/04	-do-	-do-	06

**SRI SUKHMANI INSTITUTE OF ENGINEERING & TECHNOLOGY
DERA BASSI (PUNJAB)**

ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT

LCS LAB (IC-212)

S.NO.	NAME OF EQUIPMENT	DATE OF PURCHASE	NAME OF THE LAB	PURPOSE	QUANTITY
1	C.R.O 20 MHZ	22-10-1999	LCS	For Conduct Of Practicals	03
2	Kit For Control Action Of Light	08-02-2000	-do-	-do-	02
3	Frequency & Transient Response Of 2 nd Order System	08-02-2000	-do-	-do-	02
4	Magnetic Amplifier Kit	08-02-2000	-do-	-do-	02
5	Potentiometer Error Detectotr Kit	08-02-2000	-do-	-do-	02
6	PID Controller Kit	08-02-2000	-do-	-do-	02
7	Synchro-Transmitter & Receiver Kit	17-02-2000	-do-	-do-	02
8	Servo Motor With Coupling Unit	17-02-2000	-do-	-do-	01
9	Stepper Motor,5v	29-02-2000	-do-	-do-	01
10	DC Position Control System	29-02-2000	-do-	-do-	02
11	Kit For Composite Filters	29-02-2000	-do-	-do-	04
12	Lead – Lag Trainer Kit	07-03-2000	-do-	-do-	02
13	RF Signal Generator 1 Mhz	25-03-2000	-do-	-do-	01
14	AC Position Control Servo System	22-04-2000	-do-	-do-	02

**SRI SUKHMANI INSTITUTE OF ENGINEERING & TECHNOLOGY
DERA BASSI (PUNJAB)**

**ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT
MEASUREMENT LAB (EC-207)**

S.NO.	NAME OF EQUIPMENT	DATE OF PURCHASE	NAME OF THE LAB	PURPOSE	QUANTITY
1	SERIES RESONANCE KIT	26-10-1999	EMI LAB	TO CONDUCT THE PRACTICALS	02
2	FUNCTION GENERATOR 1 MHz	26-10-1999	-do-	-do-	01
3	WHEATSTONE BRIDGE	23-11-1999	-do-	-do-	02
4	KELVIN DOUBLE BRIDGE	23-11-1999	-do-	-do-	02
5	MAXWELL BRIDGE	23-11-1999	-do-	-do-	01
6	DIGITAL Q-METER	23-11-1999	-do-	-do-	02
7	SINGLE PHASE ENERGY METER 5-10 A,240V	23-11-1999	-do-	-do-	02
8	LOADING RHEOSTAT 1 O 3.5 Kw	23-11-1999	-do-	-do-	02
9	VARIAC 230V, 0-15A	23-11-1999	-do-	-do-	02
10	DIGITAL MULTIMETER	23-11-1999	-do-	-do-	08
11	VARIABLE REGULATED POWER SUPPLY 0-30 V,5 Ampere	01-12-1999	-do-	-do-	01
12	CURRENT SOURCE 0- 10A	01-12-1999	-do-	-do-	02
13	AMMETER (0-5A)	01-12-1999	-do-	-do-	02
14	GALVANOMETER 30-0-30 microampere	01-12-1999	-do-	-do-	04
15	VOLTMETER 300V	01-12-1999	-do-	-do-	02
16	WATTMETER	01-12-1999	-do-	-do-	02

	5/10A,125/250/500V				
17	LVDT KIT	08-02-2000	-do-	-do-	02
18	PRESSURE MEASUREMENT KIT	8-02-2000	-do-	-do-	02
19	STRAIN MEASUREMENT KIT	8-02-2000	-do-	-do-	02
20	WATER LEVEL MEASUREMENT KIT	8-02-2000	-do-	-do-	02
21	KIT FOR ANDERSON BRIDGE	17-02-2000	-do-	-do-	02
22	KIT FOR AIR VELOCITY MEASUREMENT	17-02-2000	-do-	-do-	02
23	KIT FOR RPM MEASUREMENT	17-02-2000	-do-	-do-	02
24	LIGHT MEASUREMENT KIT	29 -02-2000	-do-	-do-	02
25	TEMPERATURE MEASUREMENT KIT	29-02-2000	-do-	-do-	02
26	C.R.O. 20 MHz	04 -09-2000	-do-	-do-	02

**SRI SUKHMANI INSTITUTE OF ENGINEERING & TECHNOLOGY
DERA BASSI (PUNJAB)**

ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT

LAB: MICROPROCESSOR/MICROCONTROLLER(EC-315/EC-314)

List of Equipments

S.NO	Name of Equipment	Date of Purchase	Lab	Purpose	Quantity
1	C.V.T.(2 KVA)	10/03/2000	MP/MC	Conduct of Practicals	01
2	8085 Microprocessor Kit	08/02/2000	-do-	-do-	12
3	20MHZ Dual Trace Scientific Oscilloscope	20/07/2000	-do-	-do-	01
4	Display Interface (VMC-DI)	20/07/2000	-do-	-do-	02
5	Dual DAC Interface (VMC-DAC)	20/07/2000	-do-	-do-	02
6	PPI Study Card-8255	20/07/2000	-do-	-do-	02
7	Programmable Timer (8253 study card)	20/07/2000	-do-	-do-	02
8	ADC-0809 Interface (VMC-ADC-0809)	20/07/2000	-do-	-do-	02
9	Keyboard Display Study card	20/07/2000	-do-	-do-	02
10	8086 Advanced Microprocessor Kit	02/07/2001	-do-	-do-	06
11	8051 Micro controller Kit	02/07/2001	-do-	-do-	12
12	Traffic Light Controller Card	02/07/2001	-do-	-do-	02
13	DC Motor Interfacing Card	02/07/2001	-do-	-do-	02
14	Serial 8251 study card	02/07/2001	-do-	-do-	02
15	Switch Mode Power Supply	02/07/2001	-do-	-do-	14
16	Microcontroller Study card	02/07/2001	-do-	-do-	02
17	Digital Multimeter	18/07/2001	-do-	-do-	03
18	Digital IC Tester	18/07/2001	-do-	-do-	01
19	20MHZ Oscilloscope APLAB	20/02/2002	-do-	-do-	02
20	Logic Controller Study Card	22/08/2005	-do-	-do-	03
21	D To A Controller Card	22/08/2005	-do-	-do-	03
22	A To D Controller Card	22/08/2005	-do-	-do-	03
23	Stepper Motor Control Card	22/08/2005	-do-	-do-	03
24	Stepper Motor	22/08/2005	-do-	-do-	03
25	DC Motor Control Study Card with DC Motor	22/08/2005	-do-	-do-	03

**SRI SUKHMANI INSTITUTE OF ENGINEERING & TECHNOLOGY
DERA BASSI (PUNJAB)
ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT
LAB: DSP/VLSI LAB
List of Equipments**

S.NO	Name of Equipment	Date of Purchase	Lab	Purpose	Quantity
1	UPS 5KVA		DSP/VLSI	Conduct of Practicals	01
2	UPS 625VA	19/09/2001	-do-	-do-	02
3	DSP Kit(Modrated)	30/10/2001	-do-	-do-	01
4	DSP Starter Kit	30/10/2001	-do-	-do-	02
5	MATLAB Software	24/12/2001	-do-	-do-	01
6	FPGA Trainer Kit (MXFK-084-004)	12/02/2002	-do-	-do-	01
7	CPLD Trainer Kit (MXCK-084-004)	12/02/2002	-do-	-do-	01
8	Universal Programmer	05/03/2002	-do-	-do-	01
9	Original Xilinx Software 6.1	01/10/2003	-do-	-do-	01
10	Multimeter	29/01/2004	-do-	-do-	01
11	HP Deskjet 5748 Printer	15/01/2005	-do-	-do-	01
12	Switch 24 port	18/08/2005	-do-	-do-	01
13	CPLD Trainer Kit (At-CPLD-84)	24/04/2006	-do-	-do-	02
14	FPGA Trainer Kit (AT-FPGA-208))	24/04/2006	-do-	-do-	02
15	CD Writer	12/10/2006	-do-	-do-	01
16	Computer P-IV	24/02/2009			20

**SRI SUKHMANI INSTITUTE OF ENGINEERING & TECHNOLOGY
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**ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT
LAB: T.V. Engineering**

List of Equipments

S.NO	Name of Equipment	Date of Purchase	Lab	Purpose	Quantity
1	Spectrum Analyzer(500 Mhz)	06/01/2002	T.V.	Conduct of Practical	01
2	Black & White T.V. Demonstrator	28/02/2002	-do-	-do-	02
3	Black & White T.V. Pattern Generator	28/02/2002	-do-	-do-	02
4	Wobbulscope(250 MHZ)	28/02/2002	-do-	-do-	02
5	Colour T.V. Demonstrator	24/04/2002	-do-	-do-	03
6	Colour Pattern Generator	24/04/2002	-do-	-do-	03
7	Wobbulscope(250 MHZ)	24/04/2002	-do-	-do-	03

**SRI SUKHMANI INSTITUTE OF ENGINEERING & TECHNOLOGY
DERA BASSI (PUNJAB)**

**ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT
PROJECT LAB : EC- 410**

S.NO	NAME OF ITEM	DATE OF PURCHASE	Lab	Purpose	QUANTITY
1	Computer P-III	09-09-2001	Project Lab	For Project	05
2	Digital Multimetr	16-07-2004			04
3	Computer P-IV	20-12-2004	-do-	-do-	03
4	UPS 2KVA	13-02-2005	-do-	-do-	01
5	PCB Art Work Film Maker	23-08-2006	-do-	-do-	01
6	PCB Curing (Oven)	23-08-2006	-do-	-do-	01
7	Photo Resistance DIP Coater	23-08-2006	-do-	-do-	01
8	PCB Eatching Machine	23-08-2006	-do-	-do-	01
9	Drilling Machine	23-08-2006	-do-	-do-	01

10	Shearing Machine	23-08-2006	-do-	-do-	01
11	Roller Tinning Machine	23-08-2006	-do-	-do-	01
12	Proto Developer Dye Machine	23-08-2006	-do-	-do-	01
13	Light Table	23-08-2006	-do-	-do-	01
14	Red Lamp Assembly	23-08-2006	-do-	-do-	01
15	Computer P-IV	04-09-2006	-do-	-do-	04
16	Computer p-4, 256 m byte 80gb (hd) with key board, mouse cpu.	13-09-2006	-do-	-do-	03

**SRI SUKHMANI INSTITUTE OF ENGINEERING & TECHNOLOGY
ELECTRONICS & COMMUNICATION DEPARTMENT
COMMUNICATION LAB**

S.NO	NAME OF ITEM	DATE OF PURCHASE	LAB	PURPOSE	QUANTITY
1	SAMPLING & RECONSTRUCTION TRAINER, ST-2101	08-02-2000	Commu- nication lab	Conduct of practical	03
2	PCM TRANSMITTER TRAINER, ST-2103	08-02-2000	-do-	-do-	03
3	PCM RECEIVER TRAINER, ST-2104	08-02-2000	-do-	-do-	03
4	DELTA/ ADAPTIVE, DELTA SIGMA TRAINER, ST-2105	08-02-2000	-do-	-do-	03
5	DATA FORMATTING & CARRIER MODULATION TRAINER,ST-2106	08-02-2000	-do-	-do-	03
6	CARRIER DEMODULATION/DATA REFORMATTING TRAINER, ST-2107	08-02-2000	-do-	-do-	03
7	AUDIO INPUT MODULE ST-2108	08-02-2000	-do-	-do-	03
8	AUDIO OUTPUT MODULE ST-2109	08-02-2000	-do-	-do-	03
9	CRO, 30MHZ, SCIENTECH	17-02-2000	-do-	-do-	04
10	DIGITAL MULTIMETER	17-02-2000	-do-	-do-	05
11	FUNCTION GENERATER, IMHZ, SCIENTIFIC	17-02-2000	-do-	-do-	05
12	AM/FM FUNCTION GENERATER, IMHZ,	17-02-2000	-do-	-do-	01

	TESTRON				
13	CVT, 2KVA	10-03-2000	-do-	-do-	02
14	AM TRANSMITTER TRAINER, ST-2201	07-04-2000	-do-	-do-	03
15	AM RECEIVER TRAINER, ST- 2202	07-04-2000	-do-	-do-	03
16	FM COMMUNICATION TRAINER, ST-2203	07-04-2000	-do-	-do-	03
17	CRO, 20MHZ, DUAL TRACE,	04-09-2000	-do-	-do-	02
18	DIGITAL MULTIMETER	04-09-2000	-do-	-do-	02
19	FUNCTION GENERATER, 1MHZ, TESTRON	04-09-2000	-do-	-do-	03
20	PPM MODU.& DEMODU. , FUTURETECH	15-09-2000	-do-	-do-	01
21	PWM MODU.& DEMODU. , FUTURETECH	15-09-2000	-do-	-do-	01
22	PULSE AMPLITUDE MOD & DEMODULATION, FUTURE TECH	15-09-2000	-do-	-do-	01
23	5 IN 1 TEST LAB EQUIPMENT,30 MHZ	15-09-2000	-do-	-do-	01
24	PPM MODU.& DEMODU. , FUTURETECH	17-10-2000	-do-	-do-	02
25	PWM MODU.& DEMODU. , FUTURETECH	17-10-2000	-do-	-do-	02
26	PULSE AMPLITUDE MOD & DEMODULATION, FUTURE TECH	17-10-2000	-do-	-do-	02
27	BALANCED MODULATOR,ADITRON	17-10-2000	-do-	-do-	03
28	BALANCED DEMOMULATOR,ADITRON	17-10-2000	-do-	-do-	03
29	SUPER HETRODYNE RX	17-10-2000	-do-	-do-	03
30	TRANSISTORISED IF AMPLIFIER, SIBA	06-09-2001	-do-	-do-	05
31	AMPLITUDE MOD & DEMOM, SIBA	06-09-2001	-do-	-do-	05
32	BALANCED MOD & DEMOMULATOR, SIBA	06-09-2001	-do-	-do-	05
33	FREQUENCY MOD & DEMOMULATOR, SIBA	06-09-2001	-do-	-do-	05
34	STUDY OF PLL, SIBA	06-09-2001	-do-	-do-	05
35	FM DETECTION USING PLL IC-565,SIBA	06-09-2001	-do-	-do-	05
36	SAMPLE & HOLD CIRCUIT	06-09-2001	-do-	-do-	05

	STUDY,SIBA				
37	KIT TO STUDY IF AMPLIFIER, SIBA	06-09-2001	-do-	-do-	05
38	KIT TI STUDY FREQUENCT SYNTHESIZER,SIBA	06-09-2001	-do-	-do-	05
39	BREAD BOARD	10-10-2001	-do-	-do-	01
40	BREAD BOARD	23-08-2002	-do-	-do-	09
41	SPECTRUM ANALYSER,150MHZ,	06-01-2004	-do-	-do-	01