

10.15C.2: List of Experimental Setup in each Laboratory/ Workshop**ELECTRONICS & TELE-COMMUNICATION ENGG**

Sr. No.	Trainer/Experimental Setup	Number
1	HARTLEY OSCILLATOR	4
2	AUDIO POWER AMPLIFIER	2
3	BIASING OF TRANSISTOR	3
4	BLOCKING OSCILLATOR	4
5	BRIDGE RECTIFIER WITH CENTER TAPPED & REGULATOR	2
6	CE AMPLIFIER TRAINER KIT	2
7	CHARECTERISTICS OF CB	2
8	CHARECTERISTICS OF CE	6
9	CHARECTERISTICS OF FET	6
10	CHARECTERISTICS OF UJT	2
11	CLASS B AMPLIFIER	4
12	COLLPIT'S OSCILLATOR	4
13	COMMON BASE CHARACTERISTICS	4
14	COMMON EMITTER CHARACTERISTICS	2
15	CRYSTAL OSCILLATOR	4
16	DIGITAL TRAINER KIT	2
17	DOUBLE TUNNED AMPLIFIER	2
18	DUAL POWER SUPPLY KIT	1
19	DUAL VOLTAGE REGULATOR KIT	4
20	FET AMPLIFIER	3
21	FULL WAVE RECTIFIER	3
22	HALF WAVE RECTIFIER	3
23	LATTICE BRIDGE TO T NETWORK	4
24	LDR CHARECHTERISTIC	4
25	LM 317 VOLTAGE REGULATOR	2
26	LOG & LINEAR POT CHARACTERISTICS	1
27	MAXIMUM POWER THEOREM	3
28	MILLER SWEEP GENRATOR	6
29	MOSFET AS A SWITCH	6
30	MOSFET CHARECTERISTIC	4
31	NORTON'S THEOREM	4
32	PARALLEL RLC CIRCUIT	2

33	PHOTO DIODE CHARECHTERISTIC	5
34	PN DIODE CHARACTERISTICS	3
35	POWER SUPPLY LM723 KIT	4
36	RC PHASE SHIFT OSCILLATOR	7
37	SERIES RC CIRCUIT	4
38	SERIES RL CIRCUIT	2
39	SERIES RLC CIRCUIT	2
40	SERIES VOLTAGE REGULATOR	5
41	SHUNT VOLTAGE REGULATOR	3
42	SINGLE STAGE CE AMPLIFIER	6
43	SINGLE TUNED RF AMPLIFIER	4
44	SUPERPOSITION THEOREM	3
45	THEVENIN'S THEOREM	1
46	TRANSISTOR AS A SWITCH	6
47	TWO STAGE CE AMPLIFIER	2
48	TWO STAGE RC AMPLIFIER	4
49	TWO STAGE RC COUPLED AMPLIFIER	4
50	UJT RELAXATION OSCILLATOR	4
51	VOLTAGE DIVIDER BIAS	2
52	VOLTAGE SHUNT AMPLIFIER	2
53	WHEATSTONE BRIIDGE	2
54	ZENER AS A VOLTAGE REGULATOR	5
55	ZENER DIODE CHARACTERISTICS	4
56	BOOTSTRAP OSCILLATOR	1
57	ASTABLE MULTI VIBRATOR	4
58	MONOSTABLE MULTIVIBRATOR	4
59	BISTABLE MULTIVIBRATOR	4
60	SCMITT TRIGGER	4
61	TUNED COLLECTOR OSCILATOR	4
62	PHOTO DIODE CHARECHTERISTIC	4
63	NEGATIVE FEEDBACK AMPLIFIER	4
64	LINEAR SAWTOOTH GENRATOR	4
65	UJT RELAXATION OSCILLATOR	4
66	WEIN BRIDGE OSCILLATOR	4
67	8085 MICRO PROCESSOR KIT WITH KEYBOARD	4
68	AC INV AMP	2
69	AC NON INV AMP	2

70	ACTIVE DIFFERENTIATOR	2
71	ACTIVE INTEGRATOR	2
72	ACTIVE PEAK DETECTOR	2
73	ANALOG & DIGITAL TRAINER KIT	11
74	ASTABLE MULTIVIBRATOR CIRCUIT KIT USING IC 741.	4
75	ASTABLE MULTIVIBRATOR USING IC 555	4
76	BISTABLE MULTIVIBRATOR	4
77	CONVERSION OF A/D USING 0809/0808	4
78	CONVEYER BELT BY PLC (SUB MODULE)	1
79	DAC USING FPGA DOTTER KIT	1
80	DIGITAL IC TRAINER	16
81	FM DEMODULATOR USING IC 565	2
82	FREQUENCY MULTIPLIER	2
83	FREQUENCY MULTIPLIER USING PLL IC 565	2
84	I TO V CONVERTER	1
85	INSTRUMENTATION AMP	4
86	MINI PROCESS CONTROLL DEMONSTRATOR	1
87	MONOSTABLE MULTIVIBRATOR	4
88	RELAY KIT	1
89	SCHMIT TRIGGER	4
90	SECOND ORDER HIGH PASS FILTER	2
91	SECOND ORDER LOW PASS FILTER	4
92	SQUARE TO TRIANGULAR WAVE GENERATOR	2
93	STEPPER MOTOR INTERFACE KIT FOR DIGEL 51 UC KIT	2
94	UC KIT (DIGEL 51)	2
95	V TO I CONVERTER	1
96	VCO USING IC 555	2
97	WATER LEVEL CONTROLLER	1
98	WEIN BRIDGE OSCILATOR USING IC 741	2
99	ZERO CROSSING DETECTOR	4
100	AM MOD/DEMODO	2
101	AM RADIO RECEIVER	1
102	ANTENNA TRAINER KIT	3
103	CDMA / DSS SIGNAL TRAINER KIT	2
104	DBPSK 2807	1
105	DELTA MOD/DEMODO	2
106	DPCM MOD /DEMODO	1

107	DPCM MOD /DEMOD	1
108	DPSK MOD	1
109	DSB/AM RECEIVER	1
110	DSB/AM TRANSMITTER	1
111	DSB/SSB AM RECEIVER TRAINER KIT	1
112	FDM MUX/DEMUX	3
113	FM DEMODULATION	2
114	FM MOD/DEMOD	4
115	FM RECEIVER	2
116	FSK MOD/ DEMOD	2
117	MOBILE PHONE TRAINER KIT	4
118	PAM MOD/DEMOD	2
119	PCM DEMOD.	3
120	PCM MOD.	3
121	PCM MOD/DEMOD	2
122	PSK MOD/ DEMOD	2
123	PSK MOD/ DEMOD TRAINER	2
124	PWM MOD / DEMOD TRAINER	1
125	QAM	1
126	QAM/DQAM DEMOD	1
127	QAM/DQAM MOD	1
128	QPSK MOD / DEMOD	2
129	TDM MUX/DEMUX	2
130	TRANSMISSION LINE TRAINER	2
131	(SCIENTECH)COLOUR TV TRAINER	3
132	AM RADIO RECEIVER TRAINER KIT	2
133	AMPLITUDE DEMODULATION RECEIVER KIT	1
134	AMPLITUDE MODULATION TRANSMITTER KIT	1
135	AUDIO AMPLIFIER (USING IC 810)	3
136	CHARACTERISTICS OF MIC KIT	1
137	CHARACTERISTICS OF SPEAKER KIT	1
138	CLASS B AMPLIFIER KIT	1
139	EMERGANCY LIGHT SYSTEM KIT	1
140	FIBER OPTIC ADV. TRAINER KIT	4
141	FIBER OPTIC CABLE KIT	1
142	FIBER OPTIC CONNECTOR KIT	1
143	FIBER OPTIC PULSE AMPLITUDE MOD DEMOD TRAINER	1

144	FIBER OPTIC PULSE CODE MOD DEMOD TRAINER	1
145	FIBER OPTIC PULSE POSITION MOD DEMOD TRAINER	1
146	FM RADIO TRAINER KIT WITH FAULT FINDING	2
147	FM RECIEVER KIT	1
148	FM TRANSMITTER KIT	1
149	HI-FI AMPLIFIER KIT	1
150	KLYSTRON BASED MICROWAVE BENCH WITH COMPONENT	3
151	PHOTO DIODE KIT	1
152	RADAR TRAINER KIT (WITH ACCESSORIES)	1
153	SATELLITE COMMUNICATION TRAINER	1
154	TRANSMISSION LINE TRAINER KIT(ACTUAL LINE)	2
155	LIGHT RUNNER	1
156	SPLICING MACHINE	1
157	HP SCANJET PRO 2000S SCANNER	1

MECHANICAL ENGINEERING

Sr. No.	Trainer/Experimental Setup	Number
1	Compression Strength Machine 200 ton	1
2	Digital Torsion Testing Machine (50 Kgm)	1
3	Charpy Izod and Impact Testing Machine	1
4	Profile Projector model	1
5	Metallurgical Microscope	1
6	Digital (computerised) Brinell Hardness Machine	1
7	Box Furnace (1200 celcius)	1
8	Digital Peel / Bond tester with (0-5 kg)	1
9	Standard Samples of Metallurgical Microstructure Backelite mounted Ready Speciman	1
10	Abbrasive Belt Grinder	1
11	Single Disc Polishing Machine	1
12	Digital Rockwell Hardness Tester (60, 100, 150)	1
13	Gear Rolling Tester	1
14	Jomny End Quench Hardness Tester (with pump)	1
15	Universal Testing Machine (UTV 100E) (1000 kg)	1
16	Digital Extensometer	1
17	Shear attachment	1
18	Mcleod Pressure Gauge set up	1
19	Autocollimator Angle Dekkor Combined model	1
20	Angle Gauge set of 13 pieces	1

21	Surface Roughness Tester	1
22	Floating Carriage Diameter Measuring Machine	1
23	Electronic Comparator	1
24	Industrial PLC Trainer Allen Bradley PLC model	1
25	Advance Electro Pneumatic Trainer	1
26	Basic Hydraulic trainer Kit Power Pack	1
27	Pneumatic Power Circuit system for Door open and close application using diff. Actuator	1
28	CNC Lathe Machine	1
29	CNC Milling Machine	1
30	Minor losses in Piping system	1
31	Combined Unit Venturimeter & Orifice Meter	1
32	hydraulic coefficient test set up Tilting Flume Apparatus	1
33	Determination of Major Losses/ Pipe Friction Apparatus	1
34	Pelton wheel Turbine Test Rig	1
35	Centrifugal Pump Test Rig	1
36	Reciprocating Pump Test Rig	1
37	Reynold Apparatus	1
38	Notch Apparatus	1
39	Bernoullis Theorem	1
40	Pitot Static Tube Apparatus	1
41	Rotameter Calibration Trainer kit	1
42	Universal Governor Apparatus	1
43	Static & Dynamic Balancing Appratus	1

ELECTRICAL ENGINEERING

Sr. No.	Trainer/Experimental Setup	Number
1	Study of Mosfet Trainer Kit	1
2	Study of UJT timer kit	1
3	Study of Opto coupler	1
4	Class C Forced commutation	2
5	SCR Half wave Controlled circuit	1
6	UJT Characteristics (Edkits)	1
7	Study of Speed Control Universal Motor (Without motor)	2
8	study of temperature controller & indicator	2
9	R triggering circuit	1
10	RC triggering circuit	1
11	Single phase full wave controlled rectifier	1
12	CRO	4

13	D C Power Supply	2
14	UPS Trainer kit	1
15	D C Power Supply	1
16	Pulse triggering circuit using UJT	1
17	Pulse triggering circuit using UJT	1
18	Study of SCR Charac.	1
19	Half wave controlled rectifier	1
20	Stepp up Chopper	1
21	Stepp down Chopper	1
22	Study of IGBT	2
23	UJT Timer	1
24	SCR Half wave rectifier	1
25	CRO	1
26	D C Power Supply	2
27	CRO	1
28	CRO	1
29	Servo Stabilizer	1
30	Series inverter	1
31	Paralle inverter	1
32	DC Power Supply	1
33	Chara. of SCR	1
34	SMPS	1
35	True DMM	4
36	DMM-50	2
37	1KVA Single phase	1
38	1KVA Single phase	1
39	CRO	1
40	CRO	1
41	Load Bank	1
42	Study of battery charging	1
43	Kelvins Double Bridge	1
44	Single phase full wave controlled rectifier	1
45	Study of SCR communication Method Class A B,Class C D, Class E F	3
46	Ammeter(0-10)	1
47	Ammeter(0-10)	1
48	Rehostat(200R,2A)	1
49	Rehostat(100R,5A)	1

50	Rehostat(200R,2A)	1
51	Rehostat(100R,2A)	1
52	DMMRishMulti	2
53	DMMRishMulti	1
54	DMMRishMulti	1
55	DMMRishMulti	2
56	DMMRishMulti	1
57	DMMRishMulti	1
58	Transformer	1
59	Variac	1

10.15C.2: List of Experimental Setup in 101 Laboratory/ Workshop

Sr. No.	Trainer/Experimental Setup	Number
1	AMMETER 0-30 AMPS.AC/DC (ON PANNEL)	2
2	AMMETER 0-25 AMPS.DC (ON PANNEL)	1
3	AMMETER 0-5 AMPS. AC	2
4	AMMETER. 0-10 AMPS	2
5	AMMETER 0-5 AMPS. AC	1
6	AMMETER. 0-10 AMPS	2
7	AMMETER 0-20 AMPS DC (ON PANEL)	2
8	AMMETER 0-20 AMPS DC (ON PANEL)	1
9	AMMETER 0-100 AMPS (ON PANEL)	1
10	AUTO TRANSFORMER (SINGLE PHASE 6A)	3
11	AUTO TRANSFORMER (SINGLE PHASE)	2
12	AUTO TRANSFORMER (THREE PHASE)	2
13	AUTO TRANSFORMER (THREE PHASE)	1
14	AUTO TRANSFORMER (THREE PHASE)	1
15	B.J.T COMMON EMMITER AMPLIFIER (KIT)	2
16	CROMPTON POTENTIOMETER	1
17	COMMON EMMITER CHARCT.BOARD	2
18	CRO 20 MHz.	1
19	CRO GW ANALOG	1
20	DOL STARTER	1
21	DIGITAL MAINS FREQUENCY METER(PANEL)	1
22	DC MOTOR + ALTERNATOR WITH DC SOURCE	1
23	DC MOTOR. 2HP,1500 RPM	1
24	DC MOTOR. 2HP,1500 RPM	1

25	DC GENERATOR+INDUCTION MOTOR	1
26	DIGITAL STROBOSCOPE	1
27	DRILL MACHINE	1
28	DC POWER SUPPLY (SINGLE OUT PUT)	1
29	DC POWER SUPPLY (DUAL OUT PUT)	2
30	DC POWER SUPPLY (DUAL OUT PUT)	2
31	DIGITAL MULTIMETER	1
32	DIGITAL MULTIMETER	3
33	DIGITAL MULTIMETER	6
34	DIGITAL IC TESTER	1
35	ENERGY METER 1-PHASE	1
36	FREQUENCY METER (REED TYPE)	2
37	FUNCTION GENERATOR	3
38	FUNCTION GENERATOR	2
39	FET COMMONSOURCE AMPLIFIER	2
40	FULLWAVE RECTIFIER (CENTER TAPPED)	2
41	FULLWAVE RECTIFIER (BRIDGE)	2
42	FULLWAVE RECTIFIER (CENTER TAPPED)	2
43	HALFWAVE RECTIFIER	2
44	HALFWAVE RECTIFIER	2
45	3-PHASE INDUCTION MOTOR	1
46	CUT MODEL INDUCTION MOTOR	1
47	1-PHASE INDUCTION MOT WITH LOAD SYST	1
48	3-PHASE INDUCTION MOTOR(SLIP RING)	1
49	INSULATION TESTER (MEGGER)	1
50	L-C-R Q METER	1
51	AUTO COMPUTE LCR -Q METER	1
52	DIGITAL MILIAMMETER 200mA AC	3
53	DIGITAL MILIAMMETER 200mA DC	1
54	MODEL OF MG SET (DISPLAY BOARD)	1
55	ANALOG MICRO AMMETER	2
56	POWERFACTOR METER	1
57	POWERFACTOR METER	1
58	RHEOSTAT 11-OHM 10 AMP	2
59	RHEOSTAT 100-OHM 2.8 AMP	4
60	RHEOSTAT 130-OHM 2.8 AMP	1
61	RHEOSTAT 210-OHM 2. AMP	6

62	RHEOSTAT 235-OHM 2. AMP	2
63	RHEOSTAT 800-OHM 0.3. AMP	2
64	RHEOSTAT TRAINER BOARD	1
65	RECTIFIER UNIT (ON PANEL BOARD III)	1
66	STARTER DC FOR 2 HP MOTOR	1
67	STARTER STAR DELTA AC 400 VOLT	1
68	SIGNAL GENERATOR	4
69	SWITCH ICTP 63 AMPS	1
70	SWITCH ICTP 32AMP,415 VOLTS	4
71	STUDY OF SEMICONDUCTOR BOARD	1
72	STUDY OF R L C SERIES CIRCUIT	2
73	STUDY OF THEVENINS THEOREM	2
74	STUDY OF TRANSISTOR CHARECTERISTICS	2
75	TRANSFORMER 1-PHASE SHELL TYPE	4
76	INDUCTOR	1
77	TRANSFORMER 1-PHASE 1 KVA	1
78	TACHOMETER ANALOG (0-10000 RPM)	1
79	TACHOMETER ANALOG (0-10000 RPM)	1
80	VOLTMETER 0-500 ON PB NO II	1
81	VOLTMETER 0-500 ON PB NO III	2
82	VOLTMETER PANELMETER	1
83	VOLTMETER 0-600V AC	1
84	VOLTMETER 0-500 V. DC	2
85	VOLTMETER 0-300 V	1
86	WATTMETER 1-PHASE 1000 WATTS	1
87	WATTMETER 1-PHASE 250 WATTS,10 AMP	2
88	WATTMETER 1-PHASE 2500 WATTS,10 AMP	2
89	PN JUN DIODE VI CHARACTERISTICS	2
90	ZENER DIODE VI CHARACTERISTICS	2
91	PHOTO DIODE &PHOTO TRANSISTOR KIT	2
92	RC INTIGRATION KIT FOR FREQ RESPONCE	2
93	CLIPPER CIRCUIT KIT	2
94	CLAMPER CIRCUIT KIT	2
95	COMPUTER	1
96	CHART OF EARTHING	1
97	CHART OF 1-PHASE INDUCTION MOTOR	1
98	CHART OF ELECTRICAL LAB SAFETY	1

99	CHART OF 1-PHASE TRANSFORMER	1
100	LDR CHARACTERISTICS KIT	2
101	LUX METER	2
102	BRIDGE RECTIFIER WITH C & L FILTER	2
103	SUPERPOSITION THEOREM KIT	2
104	MAX POWER TRANSFER THEOREM	2
105	VARIABLE INDUCTOR (1-5 HENNERY)	2
106	VARIABLE CAPACITOR (2-6 MF)	2
107	DIGITAL MULTIMETER	2
108	ANALOG WATTMETER 1000W,250V,10AMP.	2
109	CLAMP ON METER	2
110	MEGGER	2
111	WHEATSTONE BRIDGE	1
112	DIGITAL STOP WATCH	1
113	CURRENT TRANSFORMER	2
114	POTENTIAL TRANSFORMER	1
115	ANALOG AMMETER	1
116	3 PHASE RESISTIVE LOAD	1
117	NON CONTACT TACHOMETER	1
118	RELAY/SWITCH GEAR KIT	1
119	INDUCTION TYPE RELAY	1

10.15C.2: List of Experimental Setup in 013 Laboratory/ Workshop

Sr. No.	Trainer/Experimental Setup	Number
1	3 phase half wave uncontrolled rectifier	1
2	Single phase shell type 250v transformer	1
3	Dimmer 3 phase, 5kva with terminal 20 amp	1
4	Regulated dc power supply 0-32v dc 0-2a	1
5	Variac 0-270v single phase enclosed	1
6	3 phase inductive load	1
7	Digital multimeter	4
8	Analog voltmeter(0-300v)	1
9	Analog voltmeter(0-100v)	1
10	Analog ammeter(0-15 a)	1
11	Analog ammeter(0-15 a)	1
12	Analog ammeter(0-10 a)	1
13	Analog ammeter(0-10 a)	1

14	Analog ammeter(0-5 a)	1
15	Power factor meter	1
16	Digital tachometer	1
17	Digital stopwatch	1

CIVIL ENGINEERING

10.15C.2: List of Experimental Setup in each Laboratory/ Workshop

Sr. No.	Trainer/Experimental Setup	Number
1	Koizumi Placom Digital Planimeter	2
2	100mm Prismatic Compass With Tripod	4
3	Plane Table 15mm Thick With Stand And All Accessories	4
4	Dumpy Level With Levelling Staff	2
5	Auto Level With Levelling Staff	4
6	20-Sec Vernier Transit Theodolite	4
7	Micro Optic Theodolite	2
8	Electronic Digital Theodolite	2
9	Laser Distance Meter Model	4
10	Geo Max Total Station	2
11	Hand Held GPS Receiver Garmins	4
12	Motorized Sieve Shaker Machine	1
13	Course Aggregate IS Sieves With Lid And Pan	12
14	Vibrating Table 500mm X 500mm	1
15	Aggregate Impact Test Apparatus With Counter	1
16	Aggregate Crushing Value Apparatus	1
17	Los Angeles Abrasion Testing Machine	1
18	Slump Cone Test Apparatus	2
19	Compaction Factor Apparatus	1
20	Ultrasonic Pulse Velocity (UPV) Tester	1
21	Analog Concrete Test Hammer	1
22	Le Chatelier Mould	2
23	Density Basket	2
24	Elongation Gauge	4
25	Ring And Ball Apparatus	2
26	Automatic Standard Penetrometer	2
27	Pensky Marten Flash Point Apparatus	2
28	Ductility Testing Apparatus	1
29	Thermometer 0 To 360 Deg C	2
30	Thickness Gauge For Aggregate Size	4

31	Proctor Compaction Test Apparatus	1
32	Direct Shear Test Apparatus Electrically Cum	1
33	Cbr Apparatus California Bearing Ratio Apparatus With Load Frame	1
34	Casagrande Liquid Limit Apparatus With Count	1
35	Hot Air Oven Digital	1
36	Heating Coil Machine	1
37	Fine Aggregate Is Sieves, Brass Frame, 200mm Dia	25
38	Pyconmeter As Per Is:2368	2
39	Core Cutter Apparatus	1
40	Sand Pouring Cylinder Apparatus	1
41	Constant Head & Falling Head Permeability Apparatus	1
42	Models Of Bricks	1
43	Models Of Doors With Surrounding	1
44	Models Of Window 7 Different Type	1
45	Model Of Stair Case	1
46	Model Of Steel Roof Truss	1
47	Lean To Roof Model	1
48	Model Of Roof Showing Ridge Hip & Valley L	1
49	VANE SHEAR APPARATUS	1