



KRISHNACHAITANYA INSTITUTE OF TECHNOLOGY & SCIENCES

Devarajugattu (Post) , Peddaraveedu (Mandal), Prakasam Dist. - 523320.

(Approved by A.I.C.T.E., New Delhi, & Affiliated to JNTUK, Kakinada)

NAAC ACCREDITED INSTITUTION



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING AC /DC LAB EQUIPMENT & COST DETAILS

S.NO	NAME OF THE EQUIPMENT	No. Available	Each Cost in Rs	Total Cost
1	CRO (20MHZ)	10	19,240	1,92,400
2	FUNCTION GENERATOR(2MHZ)	10	7,155.2	71,552
3	DIGITAL MULTIMETERS	5	1,580.8	7,904
4	AM TRAINER KIT	2	1,615	3,230
5	DIODE DETECTOR	2	2,550	5,100
6	FM TRAINER KIT	2	1,955	3,910
7	BALANCED MODULATOR	2	1,530	3,060
8	PRE EMPHASIS & DEEMPHASIS	2	1,317.5	2,635
9	MIXER CHARACTERISTICS	2	1,232.5	2,465
10	DIGITAL PHASE DETECTOR	2	2,890	5,780
11	PLL TRAINER KIT	2	1,955	3,910
12	SYNCHRONOUS DETECTOR	2	2,422.5	4,845
13	SSB TRAINER KIT	2	4,037.5	8,075
14	SQUELCH CIRCUIT	2	2,550	5,100
15	FREQUENCY SYNTHESIZER	2	2,550	5,100
16	AGC CHARACTERISTICS	2	2,550	5,100
17	SERVO VOLTAGE STABILIZER (5KVA)	1	8,437.50	8,437.50
18	SAMPLING THEOREM TRAINER KIT	2	2,800	5,600
19	PAM TRAINER KIT	2	2,750	5,500
20	PWM & PPM TRAINER KIT	2	3,500	7,000
21	2-CHANNEL TDM TRAINER KIT	2	4,600	9,200
22	FSK TRAINER KIT	2	3,300	6,600
23	PSK TRAINER KIT	2	4,700	9,400
24	DELTA MODULATION TRAINER KIT	2	6,000	12,000
25	PCM TRAINER KIT	2	7,000	14,000
26	DPCM TRAINER KIT	2	7,500	15,000
27	DPSK TRAINER KIT	2	4,700	9,400
28	SOURCE ENCODER AND DECODER	1	10,500	10,500
29	LINEAR BLOCK CODE ENCODER AND DECODER	1	10,500	10,500
30	BINARY CYCLIC CODE ENCODER AND DECODER	1	10,500	10,500

31	CONVOLUTION CODE ENCODER AND DECODER	1	10,500	10,500
32	SPECTRUM ANALYZER WITH USB RF GENERATOR (3 MGHZ)	1	1,40,000	1,40,000
33	ASK TRINER KIT	2	3,500	7,000
34	ASK TRINER KIT	2	3,150	6,300
35	DIGITAL STORAGE OSCILLOSCOPE	3	29,000	87,000
TOTAL				5,22,204.50



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

EDC / ECA LAB

EQUIPMENT & COST DETAILS

S.NO	NAME OF THE EQUIPMENT	No. Available	Each Cost in Rs	Total Cost
1	CRO (20MHZ)	10	12,000	1,20,000
2	FUNCTION GENERATOR(2MHZ)	10	5,872	58,720
3	DIGITAL MULTIMETERS	30	1,514.50	45,435
4	DUAL REGULATED POWER SUPPLIES	10	4,056	40,560
5	DECADE RESISTANCE BOX	6	1,560	9,360
6	DECADE CAPACITANCE BOX	6	1,664	9,984
7	DECADE INDUCTANCE BOX	6	1,404	8,424
8	DEMO CRO	1	19,000	19,000
9	HARTLEY OSCILLATOR TRAINER KIT	2	1,248	2,496
10	COLPITS OSCILLATOR TRAINERKIT	2	1,248	2,496
11	BREAD BOARDS	10	115	1,150
12	ANALOG DC METERS	20	275	5,500
13	2-STAGE JFET CS AMPLIFIER KIT	3	924	2,772
14	2-STAGE RC COUPLED AMPLIFIER KIT	3	924	2,772
15	CURRENT FEEDBACK AMP KIT	3	823.2	2,469.60
16	CASCADE AMPLIFIER KIT	3	823.2	2,469.60
17	SERVO VOLTAGE STABILIZER (5KVA)	1	10,687.50	10,687.50
18	CLASS-A POWER AMPLIFIER KIT	3	833.2	2,499.60
19	CLASS-B COMPLEMENTARY SYMMETRY AMP KIT	3	924	2,772
20	TUNED RF (CLASS C) AMPLIFIER KIT	3	924	2,772
21	TINA V7 SIMULATION SOFTWARE	1	1,06,080	1,06,080
22	DC REGULATED DUAL POWER SUPPLY (0-30V)/2A	10	3,885	38,850
TOTAL				377,269.30



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

AICA LAB

EQUIPMENT & COST DETAILS

S.NO	NAME OF THE EQUIPMENT	No. Available	Each Cost in Rs	Total Cost
1	SAMPLING GATES	2	1,615	3,230
2	DECADE CAPACTANCE BOX	10	1,650	16,500
3	DECADE RESISTANCE BOX	15	1,250	18,750
4	DIGITAL MULTIMETERS	24	1,600	38,400
5	BREAD BOARD TRINER KIT	5	3,900	19,500
6	BREAD BOARD TRINER KIT	10	4,900	49,000
7	DIGITAL LCR METER	1	6,500	6,500
8	DIGITAL IC TESTER	1	15,900	15,900
9	BREAD BOARD	20	250	5,000
10	FUNCTION GENERATOR USING IC 741 KIT	2	1,700	3,400
11	4-BIT D/A CONVERTERS	2	1,955	3,910
12	VOLTAGE REGULATOR USING 723IC	2	1,190	2,380
13	CATHODE RAY OSCILLOSCOPE	14	16,632	2,32,848
14	REGULATED POWER SUPPLY	12	3,300	39,600
15	5KVA SERVO STABILIZER	1	8437.5	8437.50
16	FUNCTION GENERATOR 2MHZ	15	9,308.26	1,39,624
17	FLIP FLOP TRAINER KIT	2	1,615	3,230
18	FIXED POWER SUPPLIES	6	1,800	10800
Total				617,009.50



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

E-CAD LAB

EQUIPMENT & COST DETAILS

S.NO	NAME OF THE EQUIPMENT	No. Available	Each Cost in Rs	Total Cost
1	DSP STATER KITS	10	26,000	2,60,000
2	DSP BOXES	10	400	4,000
3	8051 MICRO-CONTROLLER TRAINER WITH POWE SUPPLY ESA PSM2, NI-CD BATTERY PC KEYBOARD	6	6,500	39,000
4	8086/88 MICROPROCESSORR TRAINER WITH POWE SUPPLY ESA PSM2, NI-CD BATTERY PC KEYBOARD	12	6,500	78,000
5	8251/53 STUDY CARD INTERFACE	2	1,600	3,200
6	8259 STUDY CARD INTERFACE	2	1,600	3,200
7	8255 STUDY CARD INTERFACE	2	1,600	3,200
8	8279 STUDY CARD INTERFACE	2	2,200	4,400
9	ELEVATOR INTERFACE	2	1,100	2,200
10	DUAL SLOPE ADC INTERFACE	2	1,100	2,200
11	DUAL SLOPE DAC INTERFACE	2	1,100	2,200
12	LOGIC CONTROLLER INTERFACE	2	1,100	2,200
13	TRAFIC LIGHT INTERFACE	2	1,100	2,200
14	TASM SIMULATION SOFTWARE(MPI LAB)	-	-	-
15	XYLINX(ECAD LAB SOFTWARE)	-	-	-
16	MAT LAB(DSP LAB SOFTWARE)	-	-	-
17	TANNER / MICROWIND SOFTWARE(M.TECH)	-	-	-
Total				4,16,000



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING MICROWAVE & OPTICAL COMMUNICATION ENGINEERING LAB EQUIPMENT & COST DETAILS

S.NO	NAME OF THE EQUIPMENT	No. Available	Each Cost in Rs	Total Cost
1	CRO (30 MHZ)	10	17,500	1,75,000
2	FUNCTION GENERATOR (3MHZ)	11	7,600	83,600
3	SERVO VOLTAGE STABLIZER (5KVA)	1	9,389	9,389
4	KLYSTRON BENCHES	3	86,000	2,58,000
5	GUNN DIODE BENCHES	3	87,500	2,62,500
6	LASER DIODE KIT	1	19000	19,000
7	FIBER OPTIC ANALOG TRANSMISSION KIT	2	12,500	25,000
8	FIBER OPTIC DIGITAL TRANSMISSION KIT	1	12,000	12,000
9	DIRECTIONAL COUPLER	3	5,080	15,240
10	MAGIC TEE	3	2,250	6,750
11	FIXED ATTENUATOR	3	2,050	6,150
12	3-PORT CIRCULATOR	3	4,190	12,570
13	E-PLANE TEE	3	1,550	4,650
14	H-PLANE TEE	3	1,550	4,650

15	HORN ANTENNA	2	3,000	6,000
TOTAL				9,00,499



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING STLD / DICD LAB EQUIPMENT & COST DETAILS

S.No.	Name of the Equipment	No. Available	Each Cost in Rs	Total Cost
1	DIGITAL LOGIC TRAINER KIT	10	4725	47250
2	7- SEGMENT DISPLAY USING DECODER	01	2800	2800
3	4-BIT RING COUNTER USING D-FLIP FLOP	01	2800	2800
4	4-BIT JOHNSON COUNTER USING D-FLIP FLOP	01	2800	2800
5	UNIVERSAL SHIFT REGISTER DIFFERENT MODES	01	2800	2800
6	MOD-8 RIPPLE COUNTER	01	2800	2800
7	MOD-8 SYNCHRONOUS COUNTER	01	2800	2800
8	BREAD BOARD	08	4900	39,200
Total				103250



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

IOT LAB

EQUIPMENT & COST DETAILS

S.No.	Name of the Equipment	No. Available	Each Cost in Rs	Total Cost
1	IOT Development Board Including Modules, Sensors, Adapter, Connecting Wires	10	11959.3	119593
2	PsoC 4 BLE Module & Programming Board	2	11800	23600
3	Arduino Uno R3	10	1180	11800
4	Raspberri Pi3 B++ Accessories	1	10030	10030
Total (Include IGST@18%)				165023