

ECE



ANNAMACHARYA

INSTITUTE OF TECHNOLOGY AND SCIENCES, TIRUPATI
Department of Electronics and Communication Engineering



Laboratory Hall Name: Electronic Devices & Circuits Lab
Laboratory Hall No: C101

S. No.	Name of the Equipment	Number Available	Cost of the Equipment (Rs.)
1.	Cathode Ray Oscilloscope	12	2,02,000.00
2.	Function Generators	20	1,04,350.00
3.	Regulated Power Supply	12	56,855.00
4.	AC milli Voltmeters	03	10,500.00
5.	Voltmeters	08	8,892.00
6.	Analog Ammeters	26	21,627.00
7.	Decade Resistance Box	06	9,900.00
8.	Decade Inductance Box	06	15,600.00
9.	Decade Capacitance Box	06	13,500.00
10.	Digital Millimeters	15	18,905.00
11.	Rheostats	06	12,820.00
12.	Bread Board Trainer System	08	30,600.00
13.	Kits for ECA Lab	06	9,380.00
14.	Servo Controlled Voltage Stabilizer	01	9,500.00
Total Amount			5,24,429.00

Lab Incharge - B. Neelesh

B. Neelesh
HEAD

Dept. of Electronics & Communication Engg
Annamacharya Institute of
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INSTITUTE OF TECHNOLOGY AND SCIENCES, TIRUPATI
Department of Electronics and Communication Engineering



Laboratory Hall Name: IT Skills Lab

Laboratory Hall No: C109

S. No.	Name of the Equipment	Number Available	Cost of the Equipment in Rs.
1	Computers: HP: Core i3-7100/8GB, DDR4 RAM, DOS/NO ODD/1TB HDD LENOVO: Core 2 Duo 3.2 GHz Processor, 2 GB RAM, 500 GB HDD)	67	21,34,620.00
2	Numerical Digital HPE 20KVA UPS (3Phase I/P & 1 Phase O/P) with SMF Batteries for 30 Minutes Backup	1	2,70,000.00
	12v 65AH Quanta 5100001438 VRLA/SME Battery	20	93,000.00
3	D-Link 24 Port 10/100 Fast Ethernet Switch	3	13,500.00
4	D-link Box, IO Box set D-Link, RJ45 Jack D-Link, Switch 24port D-Link Gigabit, Rack 6U D-Link		56,600.00
5	Licensed MATLAB Software with 12 Toolboxes each for 5 users	30 Users	10,86,757.00
6	DSP Floating Point Kits with Code Composer Studio (TMS 320C6713)	8	2,68,575.00
7	MULTISIM V13 Software	5 Users	1,57,500.00
8	TIVA Launch pads, sensor Hubs, potentiometers and ULN driver boards	15	42,952.00
9	Xilinx VIVADO 14.4 and Nexys TM 3Spartan-6 FPGA	25 Users	1,53,090.00
10	Cathode Ray Oscilloscopes (Professional Advanced Electronics Model No: 0S5030B)	08	1,56,000.00
11	Function Generators	08	49,600.00

12	Regulated Power Supply	08	53,760.00
13	CRO Probes	10	2,500.00
Total Amount			45,38,454.00

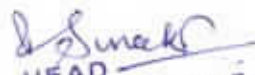

 Lab in charges
 Ms. A.Rajani, Mr.P.Sreekanth


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Department Lab Equipment Cost

S.No	Hall ID	Name of the Physical Lab	Area (Sq. m)	Investment (Rs.)
1	C 309	Electronics Devices and Circuits Lab	110	5,24,429.00
2	C 109	IT Skills Lab	110	45,38,454.00
3	C110	Microprocessors & Microcontrollers Lab	110	14,29,653.00
4	C 201	Analog & Digital Communications and Microwave & Optical Communications Lab	132	13,47,792.00
5	C 310	IC Applications Lab	110	6,24,790.00
Total Investment				84,65,118.00


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INSTITUTE OF TECHNOLOGY AND SCIENCES, TIRUPATI
Department of Electronics and Communication Engineering



Laboratory Hall Name: Microprocessors and Microcontrollers Lab

Laboratory Hall No:C110

S. No.	Name of the Equipment	Number Available	Cost of the Equipment (Rs.)
1	Computers (Core 2 Duo 2.4 GHz Processor, 1GB RAM, 320GB HDD)	30	6,72,700.00
2	8086 Microprocessor kit with Power Supply Adapters, TASM and MASM	09	36,000.00
3	8051 Microcontrollers kit with Power Supply Adapters	07	31,500.00
4	8255 Study Cards	08	18,600.00
5	8259 Study Cards	08	19,900.00
6	8251 Study Cards	08	18,400.00
7	Traffic Light Controller Interface	02	1,750.00
8	8279 Study Card	08	20,100.00
9	Elevator Interface	02	1,750.00
10	ADC Interface	08	10,450.00
11	Dual DAC Interface	08	11,050.00
12	MSP 430 Launch Pad, Booster, Experimenter Board and DC Motors	15	1,34,513.00
13	Embedded System kitsMSP430FR5969	15	1,27,500.00
14	ALS-SDA-86ME Micro Processor trainer kit	16	1,36,000.00
15	ALS-SDA-51ME Micro Controller Trainer Kit	16	1,36,000.00
16	RS 232 -9 Pin DB Connector	32	8,800.00
17	26 FRC Cables	16	2,640.00
18	56 FRC Cables	16	3,600.00
19	USB to Serial Converters	32	38,400.00
Total Amount			14,29,653.00

Lab in charges

Ms. M.Anitha,

Mr.T.Mohan, Mr.P.Sreekanth


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Department of Electronics and Communication Engineering



Laboratory Hall Name: PDC Lab

Laboratory Hall No:C301

S. No	Name of the Equipment	Number Available	Cost of Equipment in Rupees
1.	Cathode Ray Oscilloscope	18	2,87,000.00
2.	Oscilloscope Probes	20	5,000.00
3.	Function Generator	17	89,757.00
4.	Regulated Power Supply	13	47,718.00
5.	IC Regulated Power supply	8	2800.00
6.	Bread Board Trainer System	7	26,775.00
7.	Decade Resistance Box	5	8,250.00
8.	Decade Inductance Box	5	13,000.00
9.	Decade Capacitance Box	5	11,250.00
10.	Linear IC Tester	1	7,315.00
11.	Digital Multimeters	7	11,041.00
12.	Ammeters	7	5,822.00
13.	Voltmeters	6	6,669.00
14.	Rheostats	4	8,546.00
15.	ASLK Pro Kits	12	75,947.00
16.	Servo Controlled Voltage Stabilizer	1	9,500.00
17.	Bistable Multivibrator Kit	2	4,200.00
18.	Monostable Multivibrator Kit	2	4,200.00
Total Cost			6,24,790.00

Lab In Charge

Mr.B.Sreenivasan

Mr.N.Dilip Kumar, Ms.T.Nirmala

N. Dilip Kumar
N. Dilip Kumar

B. Sreenivasan
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Department of Electronics and Communication Engineering



Laboratory Hall Name: Analog and Digital Communications Lab
Laboratory Hall No:C201

Analog and Digital Communications Lab

S. No.	Name of the Equipment	Number Available	Cost of the Equipment (Rs.)
1	AM Modulation & Demodulation Trainer Kit	1	28,683.00
2	FM Modulation & Demodulation Trainer Kit	1	
3	Pre-Emphasis & De-Emphasis Trainer Kit	1	
4	Digital Phase Detector Trainer Kit	1	
5	PLL Trainer Kit	1	
6	Synchronous Detector Trainer Kit	1	
7	SSB Modulation & Demodulation Trainer Kit	1	
8	Squelch Circuit	1	
9	Frequency Synthesizer Trainer Kit	1	
10	AGC Trainer Kit	1	
11	Balanced Modulator & Demodulator	1	5533.00
12	Mixer Characteristics Trainer Kit	1	
13	PAM Modulation & Demodulation Trainer Kit	1	20,146.00
14	PWM Modulation & Demodulation Trainer Kit	1	
15	PPM Modulation & Demodulation Trainer Kit	1	
16	PSK Modulation & Demodulation Trainer Kit	1	
17	FSK Modulation & Demodulation Trainer Kit	1	
18	TDM Multiplexing & De-Multiplexing Trainer kit	1	
19	Sampling Theorem Verification Trainer Kit	1	
20	DPSK Modulation & Demodulation Trainer Kit	1	

21	PCM Modulation & Demodulation Trainer Kit	1	11,700.00
22	DPCM Modulation & Demodulation Trainer Kit	1	
23	Delta Modulation & Demodulation Trainer Kit	1	
24	Cathode Ray Oscilloscopes	7	98,000.00
25	Oscilloscope Connectors	10	2,500.00
26	Amplitude Modulation Transmitter Kit	1	12,600.00
27	Amplitude Demodulation Receiver Kit	1	12,600.00
28	BPSK/DPSK/DEPSK Modulation/Demodulation Kit	1	12,600.00
23	QPSK/DQPSK Modulation/Demodulation Kit	1	22,500.00
30	3 GHz Spectrum Analyzer	1	1,32,300.00
31	Dual DC Regulated Power Supplies	3	20,160.00
32	Function Generators	6	37,200.00
33	Digital Multimeters	3	6,000.00
ADC Lab Cost			4,22,522.00

Microwave and Optical Communications Lab

S. No.	Name of the Equipment	Number Available	Cost of the Equipment (Rs.)
1	Microwave Test Benches With Klystron Source	6	3,90,770.00
2	Microwave Gunn Source	4	2,70,400.00
3	Optical Communications Kits	8	1,86,100.00
4	Cathode Ray Oscilloscopes	4	78,000.00
MWOC Lab Cost			9,25,270.00

Total Cost of ADC Lab and MWOC Lab	13,47,792.00
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Lab in charges

Mr.P.Rajesh,

Mr.N.Dilip Kumar



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Department of ECE - Lab Equipment Cost

S.No	Hall ID	Name of the Physical Lab	Area (Sq. m)	Investment (Rs.)
1	C 309	Electronics Devices and Circuits Lab	110	5,24,429.00
2	C 109	IT Skills Lab	110	43,85,364.00
3	C110	Microprocessors & Microcontrollers Lab	110	14,29,653.00
4	C 201	Analog & Digital Communications and Microwave & Optical Communications Lab	132	13,47,792.00
5	C 310	Pulse and Digital Circuits & IC Applications Lab	110	6,24,790.00
Total Investment				83,12,028.00



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DEPARTMENT OF CIVIL ENGINEERING**GEOTECHNICAL ENGINEERING LAB****LIST OF EQUIPMENTS**

S.No	Name of Equipment	Cost (Rs)
1	Casagrande liquid limit apparatus	3,500
2	Apparatus for plastic and shrinkage limits	6,000
3	Field density apparatus for a) Core cutter method b) Sand replacement method	6,000
4	Set of sieves	8,000
5	Permeability apparatus for a) Constant head test b) Variable head test	15,000
6	IS light and heavy compaction test apparatus (3 Nos)	27,000
7	Apparatus for CBR test	85,000
8	Soil sample extractor	8,000
9	Electric oven	19,000
10	One dimensional consolidation test apparatus with all accessories.	33,000
11	Tri-axial cell apparatus	1,67,000
12	Direct Shear apparatus	83,000
13	Laboratory vane shears apparatus	15,000

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DEPARTMENT OF CIVIL ENGINEERING

STRENGTH OF MATERIALS LAB

LIST OF EQUIPMENTS

S.No	Name of Equipment	Cost (Rs)
1	Cantilever beam apparatus	3,000
2	Compression testing machine (CTM)	1,54,000
3	Fixed beam apparatus	2,500
4	Impact testing machine	56,500
5	Rockwell cum brinell hardness tester	62,900
6	Resistance strain gauges (electronic)	18,900
7	Spring testing machine	1,90,600
8	Simply supported beam (SSB)	3,000
9	Torsion testing machine	68,600
10	Uniform bending apparatus	4,000
11	Universal testing machine (UTM)	3,22,700



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SURVEYING LAB

LIST OF EQUIPMENTS

S.No	Name of Equipment	Cost (Rs)
1	Measuring chains 30m (10 No's)	12,000
2	Cross staff 100mm (12 No's)	3,500
3	Prismatic compass (10 No's)	22,000
4	Plane table set (10 No's)	42,000
5	Levelling staff 4m (10 No's)	12,000
6	Automatic level	12,000
7	Dumpy level (10 No's)	65,000
8	Digital planimeter	32,000
10	Box sextant	2000
12	Theodolites (10 No's)	21,000
13	Total station (2 No's)	5,07,000



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APPLIED MECHANICS LAB

LIST OF EQUIPMENTS

S.No	Name of Equipment	Cost (Rs)
1	Polygon of forces apparatus	3,000
2	Apparatus for reaction of forces in beam	18,000
3	Bell crank lever on angle iron base	3,000
4	Bell crank lever on wooden base	2,000
5	Combined inclined plane and friction slide apparatus with wooden base	4,000
6	Combined inclined plane and friction slide apparatus with angle iron base	8,000
7	Moment of inertia of flywheel	6,500
8	Compound pendulum	750
9	Winch crab single purchase	10,000
10	Winch crab double purchase	12,000
11	Wheel and differential axle 30cm Dia.	5,500
12	Differential pulley block model	1,000

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HIGHWAY MATERIALS LAB

LIST OF EQUIPMENTS

S.No	Name of Equipment	Cost (Rs)
1	Apparatus for aggregate crushing test	8,000
2	Aggregate impact testing machine	9,000
3	Pycnometers (6 No's)	5,500
4	Los angles abrasion test machine	70,000
5	Deval's attrition test machine	58,000
6	Length and elongation gauges	2,000
7	Bitumen penetration test setup	15,000
8	Bitumen ductility test setup	60,000
9	Ring and ball apparatus	12,000
10	Penskey – Marten's apparatus	22,000



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DEPARTMENT OF CIVIL ENGINEERING
ENVIRONMENTAL ENGINEERING LAB
LIST OF EQUIPMENTS

S.No	Name of Equipment	Cost (Rs)
1	pH meter	10,000
2	Turbidity meter	18,000
3	Conductivity meter	11,000
4	Hot air oven	23,000
5	Muffle furnace	17,500
6	Dissolved oxygen meter	24,000
7	Reflux apparatus	8,000
8	Jar test apparatus	30,000
9	BOD incubator	52,000
10	U.V. Visible spectrometer	1,30,000
11	Water bath	9,000
12	COD Extraction apparatus	10,000


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DEPARTMENT OF CIVIL ENGINEERING

ENGINEERING GEOLOGY LAB

LIST OF EQUIPMENTS

S.No	Name of Equipment	Cost (Rs)
1	Mineral samples (50 No's)	13,000
2	Rock samples (50 No's)	15,000
3	Geology maps & cross-section (30 No's)	5,000
4	Geological wood model (strike and dip (8 No's))	13,000
5	Tunnel models (5 No's)	13,500
6	Globes	1,500
7	Geo technical maps	2,000


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DEPARTMENT OF CIVIL ENGINEERING

CONCRETE TECHNOLOGY LAB

LIST OF EQUIPMENTS

S.No	Name of Equipment	Cost (Rs)
1	Set of Sieves	12,000
2	Vicat apparatus (3 No's)	12,000
3	Compaction factor apparatus	15,000
4	Slump test apparatus	2,000
5	Vee-Bee consistometer	30,000
6	Longitudinal compressometer	15,000
7	Vibrating table 1000x1000mm	22,000
8	Rebound hammer	8,000
9	RCPT apparatus	1,45,000
10	Ultrasonic pulse velocity machine	4,35,000
11	Sp. gravity and water absorption	45,000
12	Blain's air permeability apparatus	5,000


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DEPARTMENT OF CIVIL ENGINEERING

CAD LAB

LIST OF EQUIPMENTS

S.No	Name of Equipment	Cost (Rs)
1	Computers (35 No's) (Lenovo M60 Desktop, G-41, Chipset, Intel Pentium, G630 2.40 GHz processor, 2 GB DDR3 RAM, 250 GB HDD)	8,75,000
2	Staad Pro software (35 Licenses)	5,57,000



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Name of the Laboratory : Electrical Machines lab-I

Laboratory Hall No : CG 03 & 04

Year : II Year, II-Semester

Physical Stock Exist on : 01-08-2018.

LIST OF EQUIPMENTS

S.No	NAME OF THE EQUIPMENT /MACHINE	Qty	AREA(sq.ft)	MAKE
1	Magnetization Characteristics of DC Shunt Generator	1	156	Associated Scientific Corporation
2	Load Test on DC Shunt Generator	1	156	Associated Scientific Corporation
3	Brake Test on DC Shunt Motor	1	156	Associated Scientific Corporation
4	Load Test on DC Compound Generator	1	156	Associated Scientific Corporation
5	Hopkinson's Test on DC Shunt Machines	1	156	Associated Scientific Corporation
6	Fields Test on DC Series Machines	1	156	Associated Scientific Corporation
7	Swinburne's Test and Speed Control of DC Shunt Motor	1	156	Associated Scientific Corporation
8	Brake Test on DC Compound Motor.	1	156	Associated Scientific Corporation
9	Load Test on DC Series Generator	1	156	Valika Electronics
10	Retardation Test on DC Shunt Motor	1	156	Valika Electronics
11	Separation of Losses In DC Shunt Motor	1	156	Associated Scientific Corporation

12	Voltmeter(0-300)V MC	15	156	SS Labs/Valika Electronics
13	Resistive Load (10A/220)V	3	156	SS Labs/Valika Electronics
14	Resistive Load (20A/220)V	3	156	SS Labs/Valika Electronics
15	Rheostat (50 Ω /5A)	4	156	Valika Electronics
16	Rheostat (100 Ω /5A)	4	156	Valika Electronics
17	Ammeters(0-2)A	16	156	SS Labs/Valika Electronics
18	Ammeters(0-20)A	21	156	SS Labs/Valika Electronics


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INSTITUTE OF TECHNOLOGY AND SCIENCES, TIRUPATI

Department of Electrical and Electronics Engineering

Name of the Laboratory : Electrical Measurements lab

Laboratory Hall No : CG 05

Year : III Year, I-Semester

Physical Stock Exist on : 01-08-2018.

S.No	Name Of The Equipment /Machinery	Make	Number of Equipments	Area in Sq.m
1	Calibration and Testing of Single Phase Energy Meter	SS Lab equipments	01	65.04
2	Calibration of Dynamometer Power Factor Meter	SS Lab equipments & Valika Electronics	01	65.04
3	Crompton D.C. Potentiometer – Calibration of PMMC Ammeter and PMMC Voltmeter.	SS Lab equipments & Valika Electronics	01	65.04
4	Kelvin's Double Bridge – Measurement of Resistance – Determination of Tolerance.	SS Lab equipments	01	65.04
5	Measurement of % Ratio Error and Phase Angle of Given C.T. by Comparison.	SS Lab equipments & Valika Electronics	01	65.04
6	Schering Bridge & Anderson Bridge.	SS Lab equipments	01	65.04
7	Measurement of 3 Phase Reactive Power with Single-Phase Wattmeter.	SS Lab equipments	01	65.04
8	Measurement of Parameters of a Choke Coil Using 3 Voltmeter and 3 Ammeter Methods.	SS Lab equipments	01	65.04
9	Calibration LPF Wattmeter – by Phantom Testing	SS Lab equipments & Valika Electronics	01	65.04
10	LVDT and Capacitance Pickup – Characteristics and Calibration	SS Lab equipments	01	65.04
11	Measurement of 3 Phase Power with Two Watt Meter Method (Balanced & Un balanced).	Valika Electronics	01	65.04
12	Dielectric Oil Testing Using H.T. Testing Kit	Valika Electronics	01	65.04
13	Resistance Strain Gauge – Strain Measurements and Calibration	Valika Electronics	01	65.04
14	1 Φ Resistive load, 5A/10A/220V	Valika Electronics	03	65.04
15	3 Φ Resistive load, 10A/415V	Valika Electronics	01	65.04
16	1 Φ Power factor meter, 5/10A, 150/300/600V	SS Lab equipments & Valika Electronics	02	65.04
17	Wattmeter, 600V/10A	SS Lab equipments & Valika Electronics	04	65.04
18	Voltmeters	SS Lab equipments & Valika Electronics	10	65.04
19	Ammeters, 0-10A	SS Lab equipments & Valika Electronics	09	65.04
20	1 Φ Auto transformer	SS Lab equipments	05	65.04
21	Regulated power supply	Valika Electronics	01	65.04
22	Head phones	SS Lab equipments & Valika Electronics	03	65.04



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INSTITUTE OF TECHNOLOGY AND SCIENCES, TIRUPATI

Department of Electrical and Electronics Engineering

Name of the Laboratory : Power Electronics lab

Laboratory Hall No : CG 06

Year : III Year, II-Semester

Physical Stock Exist on : 01-08-2018.

LIST OF EQUIPMENT

S.NO	NAME OF THE EQUIPMENT	QUANTITY	Sq.ft	MAKE
1.	STUDY OF CHARACTERISTICS OF SCR, MOSFET, IGBT	1	78.4 sq.m	SS LAB
2.	GATE FIRING CIRCUITS OF SCR'S	~1	78.4 sq.m	SS LAB
3.	SINGLE PHASE AC VOLTAGE CONTROLLER WITH R AND RL LOADS	1	78.4 sq.m	SS LAB
4.	SINGLE PHASE FULLY CONTROLLED BRIDGE CONVERTER WITH R AND RL LOADS	1	78.4 sq.m	SS LAB
5.	FORCED COMMUTATION CIRCUITS FOR SCR	1	78.4 sq.m	SS LAB
6.	DC JONES CHOPPER WITH R AND RL LOAD	1	78.4 sq.m	SS LAB
7.	SINGLE PHASE CYCLOCONVERTER WITH R AND RL LOAD	1	78.4 sq.m	SS LAB
8.	SINGLE PHASE SERIES INVERTER WITH R AND RL LOAD	1	78.4 sq.m	SS LAB
9.	SINGLE PHASE HALF CONTROLLED BRIDGE CONVERTER WITH R AND RL LOADS	1	78.4 sq.m	PHYSTECH
10.	THREE PHASE HALF CONTROLLED BRIDGE CONVERTER WITH R AND RL LOADS	1	78.4 sq.m	PHYSTECH

11.	SINGLE PHASE PARALLEL INVERTER WITH R AND RL LOAD	1	78.4 sq.m	PHYSITECH
12.	SINGLE PHASE DUAL CONVERTER TRAINER KIT	1	78.4 sq.m	PHYSITECH
13.	CATHODE RAY OSCILLOSCOPE	11	78.4 sq.m	4-SS LAB 7-PHYSITECH
14.	RHEOSTATS-50 Ω /2A	8	78.4 sq.m	5-SS LAB 3-PHYSITECH
15.	RHEOSTATS-150 Ω /5A	5	78.4 sq.m	2-SS LAB 3-PHYSITECH
16.	INDUCTIVE LOAD-2A	4	78.4 sq.m	3-SS LAB 1-PHYSITECH
17.	INDUCTIVE LOAD-5A	2	78.4 sq.m	SS LAB
18.	SINGLE PHASE ISOLATION TRANSFORMER	2	78.4 sq.m	1-SS LAB 1-PHYSITECH
19.	THREE PHASE ISOLATION TRANSFORMER	1	78.4 sq.m	PHYSITECH
20.	REGULATED POWER SUPPLY	3	78.4 sq.m	2-SS LAB 1-PHYSITECH
21.	CENTER TAPPED TRANSFORMER	1	78.4 sq.m	SS LAB
22.	SERVO STABILIZER	1	78.4 sq.m	SS LAB


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INSTITUTE OF TECHNOLOGY AND SCIENCES, TIRUPATI

Department of Electrical and Electronics Engineering

Name of the Laboratory : Electrical Circuits lab

Laboratory Hall No : BG-1a

Year : 1 Year, II-Semester

Physical Stock Exist on : 01-08-2018.

LIST OF EXPERIMENTS

S.No	Name of Experiment	Description of Equipment	Number Required (As per Norms)	Number Available	MAKE
1	Verification of Thevenin's and Norton's Theorems	Digital Multimeters	10	10	PHYSITECH & S.S.LAB
2	Verification of Superposition Theorem and Maximum Power Transfer Theorem				
3	Verification of Compensation Theorem				
4	Verification of Reciprocity Theorem	Regulated power supply(RPS) Dual	10	10	PHYSITECH & S.S.LAB
5	Z and Y Parameters				
6	Transmission and Hybrid Parameters				
7	Verification of Millman's Theorems	Millman's theorem Kit	1	1	S.S.LAB
8	Locus Diagrams of RL and RC Series Circuits	Current locus diagram kit	1	1	S.S.LAB
		Decade Resistance Box	2	2	S.S.LAB
		Decade Inductance Box	2	2	S.S.LAB
		Decade Capacitance Box	2	2	S.S.LAB
9	Series and Parallel Resonance	Decade Resistance Box	2	2	S.S.LAB
		Decade Inductance Box	2	2	S.S.LAB
		Decade Capacitance Box	2	2	S.S.LAB
		CRO with probes	5	5	S.S.LAB
		Function Generator	3	3	S.S.LAB
10	Determination of Self, Mutual Inductances and Coefficient of Coupling	1 phase Variac	1	1	S.S.LAB
		inductors,2A	2	2	S.S.LAB
11	Measurement of Active Power for Star and Delta Connected Balanced Loads	Analog volt meters,AC 600V	3	3	S.S.LAB
		Analog ammeter, AC 10 A	3	3	S.S.LAB
		UPF watt meter 600V/10A	2	2	S.S.LAB
12	Measurement of Reactive Power for Star and Delta Connected Balanced Loads	UPF watt meter 300V/150V,5A/2.5 A	1	1	S.S.LAB
		3 phase resistive load	1	1	S.S.LAB
13	Measurement of 3-Phase Power by Two Wattmeter Method for Unbalanced Loads	Three phase Variac	1	1	S.S.LAB
		3 phase Inductive load	1	1	S.S.LAB
14	Constant K-Low pass & High pass filter	Constant K-Low pass & High pass filter Kit	1	1	S.S.LAB

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Dept. of Electrical & Electronics Engg.
Annamacharya Institute of Technology & Sciences
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ANNAMACHARYA

INSTITUTE OF TECHNOLOGY AND SCIENCES, TIRUPATI

Department of Electrical and Electronics Engineering

Name of the Laboratory : Electrical Machines lab-II

Laboratory Hall No : CG 01 & 02

Year : III Year, I-Semester

Physical Stock Exist on : 01-08-2018.

LIST OF EQUIPMENTS

S.No	NAME OF THE EQUIPMENT / MACHINE	Qty	AREA(sq.ft)	MAKE
1	2KVA Transformer	7	156	Associate scientific corporation
2	1 Phase Resistive Load @10/20A	5	156	Associate scientific corporation/valika electronics
3	1-Φ Auto Transformers(0-240/270V/10A)	7	156	Associate scientific corporation/valika electronics
4	3-Φ Auto Transformers(0-470V/20A)	4	156	Associate scientific corporation/valika electronics
5	Voltmeter –Moving Iron : (0-150V /300v)	5	156	ss labs/valika electronic
6	Voltmeter –Moving Iron : 75/150V	3	156	valika electronics
7	Voltmeter –Moving Iron : (0-300V/600V)	9	156	ss labs/valika electronic
8	Voltmeter –Moving Coil : 0-300V	1	156	valika electronics
9	Ammeter - Moving Iron : 0-10A/20A	12	156	ss labs/valika electronic/kamel electronics
10	Ammeter - Moving Iron : (0-1A/2A)	5	156	Associate scientific corporation/valika electronics
11	Ammeter - Moving coil : (0-1A/2A)	3	156	valika electronics
12	Rheostat : 470 Ohms/1.2A	3	156	valika electronics
13	Rheostat : 370 Ohms/1.7A	1	156	valika electronics
14	Rheostat : 150 Ohms/5A	1	156	valika electronics

15	Rheostat :50 Ohms/2A	2	156	valika electronics
16	Watt meters :U.P.F :0-600V/10A	8	156	Associate scientific corporation/valika electronics
17	Watt meters :L.P.F :0-300V	6	156	Associate scientific corporation/valika
18	Clamp Meters :	3	156	valika electronics
19	Single Pole single Throw Switch :SPST	2	156	valika electronics
20	Digital Tachometer	3	156	valika electronics
21	3- ϕ induction motor	1	156	Associate scientific corporation
22	1- ϕ induction motor	1	156	Associate scientific corporation
23	Synchronous motor	1	156	Associate scientific corporation
24	Dc shunt motor coupled with alternator	1	156	Associate scientific corporation
25	Dc shunt motor coupled with salient pole alternator	1	156	Associate scientific corporation


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INSTITUTE OF TECHNOLOGY AND SCIENCES, TIRUPATI

Department of Electrical and Electronics Engineering

Name of the Laboratory : Control Systems lab

Laboratory Hall No : CG 06

Year : II Year, II-Semester

Physical Stock Exist on : 01-08-2018.

S.NO	NAME OF THE EXPERIMENT	QUANTITY	AREA (Sq.ft)	MAKE
1.	Characteristics of magnetic amplifier	1	78.5	Physitech Power Systems
2.	Effect of feedback on AC Servo Motor	1	78.5	Physitech Electronics
3.	Synchro Transmitter receiver pair	1	78.5	Physitech Electronics
4.	Effect of P, PI, PID controller on a second order system	1	78.5	Physitech Electronics
5.	Linear System Simulator (Time response of second order system)	1	78.5	Physitech Electronics
6.	Lead and Lag Compensation of Magnitude and Phase Plot	1	78.5	Physitech Electronics
7.	Transfer function of DC Motor	1	78.5	Physitech Power Systems
8.	Temperature controller using PID	1	78.5	Physitech Power Systems
9.	5kva Servo Stabilizer	1	78.5	Professional Advanced Electronics
10.	Decade Resistance Box	3	78.5	S.S Lab
11.	Decade Inductance Box	2	78.5	S.S Lab
12.	Decade Capacitance Box	2	78.5	S.S Lab
13.	Programmable logic controller-study &	1	78.5	Physitech Power Systems



	Verification of truth table of logic gates, Simple Boolean Expression			
14.	Effect of feedback on DC Servo Motor.	1	78.5	Physitech Power Systems
15.	CRO Dual Trace 30MHZ	4	78.5	Physitech Power Systems
16.	CRO Probes	8	78.5	Physitech Power Systems
17.	R Load ($50\Omega/2A$)	1	78.5	Physitech Power Systems


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INSTITUTE OF TECHNOLOGY AND SCIENCES, TIRUPATI

Department of Electrical and Electronics Engineering

Name of the Laboratory : Power Systems and Simulation lab
Laboratory Hall No : BG-1 b
Year : IV Year, I-Semester
Physical Stock Exist on : 01-08-2018.

List of Experiments

SL.NO	NAME OF EXPERIMENT	QUANTITY	AREA (Sq.Mts)	MAKE
1	Determination of Sequence Impedances of Cylindrical Rotor Synchronous Machine.	1	97.5	PHYSITECH POWER SYSTEMS
2	Fault Analysis - I (LG Fault, LL Fault)	1	97.5	PHYSITECH POWER SYSTEMS
3	Fault Analysis - II (LLG Fault, LLLG Fault)	1	97.5	PHYSITECH POWER SYSTEMS
4	Determination of Sub-Transient reactance s of a salient pole synchronous machine.	1	97.5	PHYSITECH POWER SYSTEMS
5	Equivalent circuit of a 3 winding transformer	1	97.5	PHYSITECH POWER SYSTEMS
6	Y-Bus formation using MATLAB	5 USERS	97.5	PHYSITECH POWER SYSTEMS
7	Z-Bus formation using MATLAB	5 USERS	97.5	PHYSITECH POWER SYSTEMS
8	Gauss-Seidel load flow analysis using MATLAB	5 USERS	97.5	PHYSITECH POWER SYSTEMS
9	Fast decoupled load flow analysis using MATLAB	5 USERS	97.5	PHYSITECH POWER SYSTEMS
10	Develop a Simulink model for a single area load frequency problem and simulate the same.	5 USERS	97.5	PHYSITECH POWER SYSTEMS


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ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: TIRUPATI – 517520
DEPARTMENT OF MECHANICAL ENGINEERING

Name of the Physical Lab : Engineering Workshop – 1 Area : 195.55 Sq. m
Name of the Curriculum Lab : Engineering & IT Workshop

LIST OF EQUIPMENT & THEIR COST

S.No	Name of the Equipment	Date of Purchase	Cost (₹)
1	Bench Vice		58800
2	Carpenter Vice		31650
3	Vices in Tin Smithy		3000
4	House Wiring Boards		6000
5	Arc Welding Machine(200A)		6200
TOTAL			105650
Less Discount 20% (-)			
TOTAL			
VAT @ 5 %(+)			
Grand Total			


 Lab In-Charge


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AITS., TIRUPATI - 517 520



ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: TIRUPATI – 517520
DEPARTMENT OF MECHANICAL ENGINEERING

Name of the Physical Lab : Material Science Lab Area : 100 Sq. m
Name of the Curriculum Lab : Material Science & Engineering Lab

LIST OF EQUIPMENT & THEIR COST

S.No	Name of the Equipment	Date of Purchase	Cost (Rs.)
1	Hydraulic Semi-Automatic Mounting Press (3 TON CAPACITY)	21-09-2011	23000
2	Belt Surface grinder	21-09-2011	12500
3	Double Disc polisher	21-09-2011	28500
4	Hand Polishing Stand	21-09-2011	4700
5	Heat treatment Furnace 1000 ^o C (6X6X12) (Muffle furnace)	21-09-2011	16000
6	Jominy Quenching Machine.	21-09-2011	42250
7	Specimen Cut-Off Machine (2.HP)	21-09-2011	25850
8	Trinacular Metallurgical Microscope (2)	05-02-2016	47700
9	Material plus software	05-02-2016	23500
10	Binocular Metallurgical Microscope (7)	05-02-2016	150500
11	Binocular Metallurgical Microscope (3)	05-02-2016	49500
12	Double disc polisher	05-02-2016	24100
TOTAL(1to7)			1,59,390
TOTAL(8to 10)			2,50,200
Less Discount(7to 10) 15% (-)			37,530
VAT (1to 6) @ 5 %(+)			7,970
VAT (7to 10) @ 5 %(+)			10,065
Grand Total(1to 6)			1,67,360
Grand Total(7to 10)			2,60,275
Total			4,68,230


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ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: TIRUPATI – 517520
DEPARTMENT OF MECHANICAL ENGINEERING

Name of the Physical Lab : CAD/CAM LAB Area : 126.16 Sq. m
Name of the Curriculum Lab : CAD/CAM Lab

LIST OF EQUIPMENT & THEIR COST

S. No	Name of the Equipment	Number	Cost of the
1	CNC Slant Bed Lathe (PC CONTROLLED)	1	4,95,000
2	Computers	55	18,48,000
3	CNC Milling Machine	1	6,77,966
Total (1)			5,56,182
Total (2)			18,48,000
VAT (1)@ 5%(+)Insurance			27,809+2,336
IGST@18%			1,22,034
Total Cost			32,34,327


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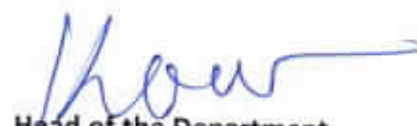
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DEPARTMENT OF MECHANICAL ENGINEERING

Name of the Physical Lab : Fluid Mechanics & Hydraulic Machinery Lab Area : 134.75 Sq. m
Name of the Curriculum Lab : Fluid Mechanics & Hydraulic Machinery Lab

LIST OF EQUIPMENT & THEIR COST

S.No	Name of the Equipment	Date of	Cost (Rs.)
1	Impact of Jet on Vanes	24-06-2008	29,645
2	Centrifugal Pump Test Rig(Single Stage) With 1 Hp DC	24-06-2008	52,800
3	Centrifugal Pump Test Rig(Multi Stage) With 1 Hp DC	24-06-2008	53,900
4	Reciprocating Test Rig With DC Motor	24-06-2008	54,450
5	Venturi & Orifice meter Test Rig	24-06-2008	32,975
6	Pipe Friction Apparatus	24-06-2008	32,450
7	Loss of Head due to Contraction Apparatus	24-06-2008	32,700
8	Pelton Turbine Test Rig	29-08-2008	1,07,800
9	Francis Turbine	29-08-2008	1,09,860
10	Orifice & Mouth Pieces Setup with all Standard Accessories	05-01-2011	53,000
11	Notch Apparatus with all Standard	05-01-2011	53,000
12	Bernoulli's Theorem Setup With all Standard Apparatus	05-01-2011	46,000
13	Hydraulic Pump Test Apparatus	29-12-2015	1,45,000
TOTAL(1 to 7)			2,88,920
TOTAL(8 to 9)			2,17,660
TOTAL(10 to 12)			1,52,000
TOTAL(13)			1,45,000
Less Discount(1 to 7) 30% (-)			86,676
Less Discount(8 to 9) 30% (-)			65,298
Less Discount(10 to 12) 15% (-)			22,800
CST (10 to 12) @ 12.5%(+)			16,150
VAT (13) @ 5 %(+)			7,250
Grand Total(1 to 7)			2,02,244
Grand Total(8 to 9)			1,52,362
Grand Total(10 to 12)			1,45,350
Grand Total(13)			1,52,250


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ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: TIRUPATI – 517520
DEPARTMENT OF MECHANICAL ENGINEERING

Name of the Physical Lab : HEAT TRANSFER LAB
Name of the Curriculum Lab : HEAT TRANSFER LAB

Area : 70.40 Sq. m

LIST OF EQUIPMENT & THEIR COST

S.No	Name of the Equipment	Date of Purchase	Cost (Rs.)
1	Thermal Conductivity of Insulation Powder	06-06-2012	36,000
2	Thermal Conductivity of Composite Walls	06-06-2012	42,500
3	Natural Convection Apparatus	06-06-2012	36,000
4	Heat Transfer Through Pin-Fin Apparatus	06-06-2012	42,500
5	Heat Transfer Through Forced Convection Apparatus	06-06-2012	42,500
6	Emissivity Measurement Apparatus	06-06-2012	40,500
7	Parallel/Counter Flow Heat Exchanger	06-06-2012	38,500
8	Stefan – Boltzmann Apparatus	06-06-2012	36,000
9	Thermal Conductivity Of Metal Rod	06-06-2012	41,500
10	Lagged Pipe Apparatus	06-06-2012	41,500
TOTAL			3,97,500
Less Discount 22% (-)			91,425
TOTAL			3,06,075
CST @12.5 %(+)			38,259
Grand Total			3,44,334

M. Balaji
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Koan
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ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: TIRUPATI – 517520
DEPARTMENT OF MECHANICAL ENGINEERING

Name of the Physical Lab : MACHINE TOOLS LAB
Name of the Curriculum Lab : MACHINE TOOLS LAB

Area : 108.0 Sq. m

LIST OF EQUIPMENT & THEIR COST

S.No	Name of the Equipment	Date of Purchase	Cost (Rs.)
1	Lathe Machine	13-12-2012	3,10,575
2	Radial Drilling Machine	13-12-2012	61,271
3	Shaper	13-12-2012	90,774
4	Universal Milling Machine	13-12-2012	1,32,840
5	Slotting Machine	13-12-2012	63,140
6	Grinding Machine	13-12-2012	76,260
7	Surface Grinding Machine	13-12-2012	80,195.24
8	Advanced Surface Grinding Machine	05-02-2016	245000
9	Planning Machine	05-02-2016	355850
TOTAL(1to7)			8,15055.24
TOTAL(8to9)			6,03600
Less Discount(8to9) 15% (-)			90,540
VAT (1to7) @ 5 %(+)			40,752.76
VAT (8to9) @ 5 %(+)			25,653
Grand Total(1to7)			8,55,808
Grand Total(8to9)			5,38,713


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ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: TIRUPATI – 517520
DEPARTMENT OF MECHANICAL ENGINEERING

Name of the Physical Lab : MANUFACTURING TECHNOLOGY LAB Area : 64.80 Sq. m
 Name of the Curriculum Lab : MANUFACTURING TECHNOLOGY LAB

LIST OF EQUIPMENT & THEIR COST

S.No	Name of the Equipment	Date of	Cost (Rs.)
1	Sand Rammer(A)	25-11-2011	22,400/-
	Sand Rammer (B)	05-02-2016	23900/-
2	Permeability Tester	25-11-2011	25,600/-
3	Universal Strength Machine (Hydraulic)	25-11-2011	42,400/-
4	Shear Strength Attachment		2200/-
5	Tensile Strength Attachment		4800/-
6	Hydraulic Press	25-11-2011	58,600/-
7	Die for Hydraulic Press (V-Block)		8500/-
8	Blow Moulding Machine	25-11-2011	42,000/-
9	Die for Blow Moulding Machine	25-11-2011	8,500/-
10	Injection Moulding Machine	25-11-2011	36,600/-
11	Die for Injection Moulding Machine	25-11-2011	8,500/-
12	Spot Welding Machine	25-11-2011	34,800/-
13	Combined Machine For Arc & Tig Welding	25-11-2011	39,800/-
14	Electronic Balance	25-11-2011	12,600/-
15	Sand Tester	05-02-2016	25000
16	Sand Shiver	05-02-2016	49750
17	Hardness Test	05-02-2016	15800
18	Tig Welding Equipments	05-02-2016	25000
19	Plasma Welding Machine	05-02-2016	69850
20	Brazing Machine	05-02-2016	19800
21	Press Tool	05-02-2016	158200
TOTAL(1a+2to14)			3,47,300.00
TOTAL(1b+15to 21)			3,87,300.00
Less Discount(1a+2to14) 20% (-)			69,460.00
Less Discount(1b+15to21) 15% (-)			58,095.00
TOTAL(1a+2to14)			2,77,840.00
TOTAL(1b+15to 21)			3,29,205.00
VAT (1a+2to14)@ 5 %(+)			13,892.00
VAT (1b+15to 21)@ 5 %(+)			16,451.00
Grand Total(1a+2to14)			2,91,732.00
Grand Total(1b+15to21)			34,56,66.00


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ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: TIRUPATI – 517520
DEPARTMENT OF MECHANICAL ENGINEERING

Name of the Physical Lab : METROLOGY LAB
Name of the Curriculum Lab : METROLOGY LAB

Area : 42.90 Sq. m

LIST OF EQUIPMENTS & THEIR COST

S.No	Name of the Equipment	Date of Purchase	Cost (Rs.)
1	Tool Maker Microscope	20-11-2012	42750
2	Vernier Caliper	20-11-2012	6767
3	Vernier Height Gauge	20-11-2012	17812.50
4	Bevel Protractor	20-11-2012	27075
5	Sine Bar	20-11-2012	10687.50
6	Gear Tooth Vernier Caliper	20-11-2012	5937.50
7	Dial Bore Gauge	20-11-2012	15912.50
8	Sprit Level	20-11-2012	19475
9	Slip Gauges Set	20-11-2012	12468.75
10	Outside Micrometer 0-25	20-11-2012	2018.75
11	Out Side Micrometer 25-50	20-11-2012	2612.50
12	Jaw -Type Inside Micrometer 0-25	20-11-2012	5652.50
13	Jaw –Type Inside Micrometer 25-50	20-11-2012	5652.50
14	Granite Surface Plate	20-11-2012	5581.25
15	Floating Carriage Micrometer	05-02-2016	49850
16	Tally Surf	05-02-2016	98500
17	Straight Edge	05-02-2016	550
TOTAL(1-14)			180403.3
TOTAL(15-17)			148900.00
Less Discount (15-17)15% (-)			22335.00
VAT (1-14)@ 5 %(+)			9,020.20
VAT (15-17)@ 5 %(+)			6,329.00
Grand Total(1-14)			1,89,424.00
Grand Total(15-17)			1,32,894.00
Total			3,22,318.00


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ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: TIRUPATI – 517520

DEPARTMENT OF MECHANICAL ENGINEERING

Name of the Physical Lab : MEASUREMENTS LAB

Area : 42.90 Sq. m

Name of the Curriculum Lab : MEASUREMENTS LAB

LIST OF EQUIPMENTS & THEIR COST

S.No	Name of the Equipment	Date of Purchase	Cost (Rs.)
1	CALIBRATION OF PRESSURE GAUGE	06-08-2013	18,000
2	CALIBRATION OF TRANSDUCER FOR TEMPERATURE MEASUREMENT	06-08-2013	17,000
3	STUDY AND CALIBRATION OF LVDT TRANSDUCER FOR DISPLACEMENT MEASUREMENT	06-08-2013	22,000
4	CALIBRATION OF STRAIN GAUGE FORCE MEASUREMENT	06-08-2013	17,000
5	CALIBRATION OF THERMOCOUPLE FOR TEMPERATURE MEASUREMENT	06-08-2013	18,700
6	CALIBRATION OF CAPACITIVE TRANSDUCER FOR ANGULAR DISPLACEMENT	06-08-2013	20,000
7	STUDY AND CALIBRATION OF PHOTO AND MAGNETIC SPEED PICKUPS FOR THE MEASUREMENT	06-08-2013	22,500
8	CALIBRATION OF RESISTANCE TEMPERATURE DETECTOR FOR TEMPERATURE MEASUREMENT	06-08-2013	15,000
9	STUDY AND USE OF SEISMIC PICKUP FOR THE MEASUREMENT OF VIBRATION OF ENGINE	06-08-2013	50,000
10	STUDY AND CALIBRATION OF MCLEAD GAUGE FOR LOW PRESSURE	06-08-2013	35,000
11	ROTOMETER RANGE:0.5-1LPM-FLOAT 304SS PVC CONICAL-SCALE LENGTH;85mm	06-08-2013	9000
12	ROTOMETER RANGE:0.5-5 LPM-FLOAT 304SS PVC CONICAL-SCALE LENGTH;125mm	06-08-2013	13,000
13	ROTOMETER RANGE:1-10 LPM-FLOAT 304SS PVC CONICAL-SCALE LENGTH;85mm	06-08-2013	20,000
TOTAL			2,77,200
Packing Charges (3%)			8,316
CST @ 5 %(+)			13,860
Fright Charges			4000
GRAND TOTAL			3,03,376


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ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: TIRUPATI – 517520
DEPARTMENT OF MECHANICAL ENGINEERING

Name of the Physical Lab : Thermal Engineering Lab
Name of the Curriculum Lab : Thermal Engineering Lab

Area : 76.54 Sq. m

LIST OF EQUIPMENT & THEIR COST

S.No	Name of the Equipment	Date of Purchase	Cost (Rs.)
1	Cut model 2- Stroke Single Cylinder Petrol Engine Test Rig	25-06-2012	17,100
2	4-Stroke Slow Speed Diesel Engine Test Rig	25-06-2012	1,04,500
3	2- Stroke Single Cylinder Petrol Engine(Ac Generator Loading)	25-06-2012	66,500
4	4-Stroke Three Cylinder Petrol Engine Test Rig	25-06-2012	1,80,500
5	Cut Section 4-Stroke Single Cylinder Diesel Engine	25-06-2012	22,800
6	2- Stroke Air compression Test Rig	25-06-2012	90,250
Sub Total			4,81,650
CST @ 5 %(+)			24,082
Grand Total			5,05,732.50


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ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES:TIRUPATI

Total No. of computers purchased and used in the Whole College

S.No	Name of the Lab/ Dept/Office/Section/Lib etc	Hardware Specification	No. of Computers		
			standalone	On LAN/WAN	Internet connected
1	Computer Centre-IA (IT Workshop,C,C++) IInd Floor,'B' Block	LENOVO M60 DESKTOP G-41, Chipset, Intel Pentium G630 2.40Ghz processor, 2 GB DDR3 RAM, 250 GB HDD,Keyboard, Optical Mouse, 15.6" LED Monitor. (80 systems with 8GB RAM upgraded)	113	113	113
2	Computer Centre-IB (IT work Shop, C,C++, Business data Processing) IInd Floor,'B' Block	LENOVO M60 DESKTOP G-41, Chipset, Intel Pentium G630 2.40Ghz processor, 2 GB DDR3 RAM, 250 GB HDD,Keyboard, Optical Mouse, 15.6" LED Monitor. WIPRO NET POWER Z2501 Intel XEON 1.86GHz Processor, Intel chipset, 1 GB DDR-II RAM, 2*160 GB SATA Disk, DVD Writer, Key Board, Optical Mouse,17" CRT Monitor	118	118	118
3	Computer Center-II (IT work shop,EEE dept Spice Lab) IInd Floor,'C' Block	HP 280G4 Desktop Intel Core i3-8100, 8GB RAM,1TB HDD, 18.5 TFT monitor USB mouse and USB Key Board DELL OPTIPLEX 330 Intel Core 2 Duo2.4GHz Processor, 2 MB L2 Cache, 800 MHz FSB, Intel G 31 Express Chipset, 1 GB DDR-II RAM, 160 GB SATA Disk Key Board, Optical Mouse, 17" LCD Monitor Lenovo Desktop M70 Intel dual core 2.8 Ghz,G41 chipset,4GB DDR3 RAM,320GB HDD,18.5 TFT monitor	110	110	100
4	Computer center-III (Database management) IInd Floor,'A' Block	Lenovo S500 Desktop Intel H110 chipset, Intel i3 Processor, 4GB DDR4 RAM,1TB HDD,LED 19.5 Monitor	80	80	80
5	ELCS LAB IInd Floor ,'C' Block	Lenovo Desktop M70 Intel G41 chipset,Intel dual core 2.8 Ghz,G41 chipset,4GB DDR3 RAM,320GB HDD,18.5 TFT monitor	66	66	66
4	CAD/CAM LAB 3 rd Floor ,'B' Block	LENOVO 36551G0 DESKTOP Intel H61 chipset, Intel core i3-4150 processor, 4GB DDR3Memory, 500GB HDD, Keyboard,2GB Graphics card Optical Mouse, 18.5" wide LED TFT.	55	55	55

7	Microprocessor LAB 1 st Floor, 'C' Block	DELL OPTIPLEX 330 Intel Core 2 Duo 2.4GHz Processor, 2 MB L2 Cache, 800 MHz FSB, Intel G 31 Express Chipset, 1 GB DDR-II RAM, 160 GB SATA Disk Key Board, Optical Mouse, 17" LCD Monitor LENOVO TOWER FORM FACTOR Intel H61 chipset, Intel G3220, 2GB RAM, 500GB HDD, keyboard, mouse 18.5 TFT	35	35	35
8	DSP Simulation Lab 1 st Floor, 'C' Block	HP DESKTOP 280 G3 Intel H110 chipset, Intel Core 3 Processor, 8 GB DDR4 RAM, 1TB SATA Disk Key Board, Optical Mouse, 18.5" LED Monitor	67	67	67
9	AECS lab 3 rd Floor, 'B' Block	WIPRO SYSTEMS PD-3.0GHz Processor @ 2*2MB cache, 645 GC Chipset, 1GB DDR2 RAM, 80 GB SATA Disk, Key Board, Optical Mouse, 17" CRT Monitor. LENOVO THINK CENTER G-41 Chipset, Intel dual core 2.80Ghz processor, 2 GB DDR3 RAM, 500GB HDD, keyboard, Mouse, 18.5" LED monitor	32	32	32
10	Digital Library 2 nd Floor, 'B' Block	LENOVO M60 DESKTOP G-41, Chipset, Intel Pentium G630 2.40Ghz processor 2 GB DDR3 RAM, 250 GB HDD Keyboard, Optical Mouse, 15.6" LED Monitor.	20	20	20
11	SPICE Simulation Lab:EEE department Ground Floor, 'C' Block	LENOVO M60 DESKTOP G-41, Chipset, Intel Pentium G630 2.40Ghz processor, 2 GB DDR3 RAM, 250 GB HDD, Keyboard, Optical Mouse, 15.6" LED Monitor. WIPRO SYSTEMS PD-3.0GHz Processor @ 2*2MB cache, 645 GC Chipset, 1GB DDR2 RAM, 80 GB SATA Disk, Key Board, Optical Mouse, 17" CRT Monitor.	3	3	3
12	OFFICE 1 st Floor, 'B' Block	LENOVO M60 DESKTOP G-41 Chipset, intel dual core 2.80Ghz processor, 2 GB DDR3 RAM, 320 GB HDD DELL OPTIPLEX 330 Intel Core 2 Duo 2.4GHz Processor, 2 MB L2 Cache, 800 MHz FSB, Intel G 31 Express Chipset, 1 GB	6	6	6

		DDR-II RAM,160 GB SATA Disk Key Board, Mouse, 17" LCD monitor			
13	E Class Room 1 st Floor, 'B' Block	LENOVO THINK CENTER Model-E73, Intel Pentium G3220 3.0GHz Processor, 2GB RAM, 500GB HDD, 18.5 TFT monitor	1	1	1
14	Conference room 1 st Floor, 'B' Block	LENOVO THINK CENTER Model-E73, Intel Pentium G3220 3.0GHz Processor, 2GB RAM, 500GB HDD, 18.5 TFT monitor LENOVO TOWER FORM FACTOR Intel H61 chipset, Intel G3220, 2GB RAM, 500GB HDD, keyboard, mouse 18.5 TFT	2	2	2
15	Civil department: HOD and Staff Room 1 st floor, 'A' Block	LENOVO THINK CENTER Model-E73, Intel Pentium G3220 3.0GHz Processor, 2GB RAM, 500GB HDD, 18.5 TFT monitor LENOVO THINK CENTER G-41 Chipset, Intel dual core 2.80Ghz processor, 2 GB DDR3 RAM, 500GB HDD, keyboard, Mouse, 18.5" LED monitor	2	2	2
16	Mech Department: HOD and Staff 3 rd Floor, 'A' Block	LENOVO THINK CENTER Model-E73, Intel Pentium G3220 3.0GHz Processor, 2GB RAM, 500GB HDD, 18.5 TFT monitor LENOVO TOWER FORM FACTOR Intel H61 chipset, Intel G3220, 2GB RAM, 500GB HDD, keyboard, mouse 18.5 TFT	2	2	2
17	Mech Department : Material Science Lab 1 st floor, 'D' Block	Lenovo Desktop M70 Intel dual core 2.8 Ghz, G41 chipset, 2GB DDR3 RAM, 320GB HDD, 18.5 TFT monitor	1	1	1
18	ECE Department: HOD and Staff 1 st Floor, 'C' Block	LENOVO THINK CENTER Model-E73, Intel Pentium G3220 3.0GHz Processor, 2GB RAM, 500GB HDD, 18.5 TFT monitor LENOVO THINK CENTER G-41 Chipset, Intel dual core 2.80Ghz processor, 2 GB DDR3 RAM, 500GB HDD, keyboard, Mouse, 18.5" LED monitor	2	2	2
19	EEE Department : HOD and Staff 3 rd Floor, 'C' Block	LENOVO M60 DESKTOP G-41, Chipset, Intel Pentium G630 2.40Ghz processor 2 GB DDR3 RAM, 250 GB HDD Keyboard, Optical Mouse, 15.6" LED Monitor. LENOVO THINK CENTER Model-E73, Intel Pentium G3220 3.0GHz Processor, 2GB RAM, 500GB HDD, 18.5 TFT monitor	2	2	2
20	CSE Department: HOD, Staff and Seminar Hall 2 nd Floor, 'A' Block	LENOVO THINK CENTER Model-E73, Intel Pentium G3220 3.0GHz Processor, 2GB RAM, 500GB HDD, 18.5 TFT monitor Lenovo Desktop M70	3	3	3

		Intel dual core 2.8 Ghz,G41 chipset,2gb DDR3 RAM,320GB HDD,18.5 TFT monitor			
21	MBA Department:HOD and Staff 4 th Floor, 'C' Block	LENOVO THINK CENTER Model-E73,Intel Pentium G3220 3.0GHz Processor,2GB RAM,500GB HDD,18.5 TFT monitor LENOVO TOWER FORM FACTOR Intel H61 chipset,Intel G3220,2GB RAM,500GB HDD,keyboard,mouse 18.5 TFT WIPRO SYSTEMS PD-3.0GHz Processor@2*2MB cache,645 GC Chipset, 1GB DDR2 RAM, 80 GB SATA Disk, Key Board ,Optical Mouse,17" CRT Monitor.	3	3	3
22	Examination Cell 1 st Floor, 'B' Block	LENOVO 36551G0 DESKTOP Intel H61 chipset, Intel core i3-3220 processor, 4GB DDR3 Memory, 500GB HDD, Lenovo Desktop M70 Intel dual core 2.8 Ghz,G41 chipset,2gb DDR3 RAM,320GB HDD,18.5 TFT monitor	4	4	4
23	H&S Department:HOD and Staff 4 th Floor, 'A' Block	LENOVO THINK CENTER Model-E73,Intel Pentium G3220 3.0GHz Processor,2GB RAM,500GB HDD,18.5 TFT monitor LENOVO TOWER FORM FACTOR Intel H61 chipset,Intel G3220,2GB RAM,500GB HDD,keyboard,mouse 18.5 TFT	2	2	2
24	Principal Chamber 1 st Floor, 'B' Block	LENOVO THINK CENTER Model-E73,Intel Pentium G3220 3.0GHz Processor,2GB RAM,500GB HDD,18.5 TFT monitor	1	1	1
25	PA to Principal and PED 1 st Floor, 'B' Block	LENOVO TOWER FORM FACTOR Intel H61 chipset,Intel G3220,2GB RAM,500GB HDD,keyboard,mouse 18.5 TFT	2	2	2
26	Dr V.C. Veera Reddy Staff Room,3 rd Floor, 'B' Block	LENOVO TOWER FORM FACTOR Intel H61 chipset,Intel G3220,2GB RAM,500GB HDD,keyboard,mouse 18.5 TFT	1	1	1
27	Director Chamber 1 st Floor, 'A' Block	LENOVO TOWER FORM FACTOR Intel H61 chipset,Intel G3220,2GB RAM,500GB HDD,keyboard,mouse 18.5 TFT	1	1	1
28	Placement Cell	Lenovo Desktop M70 Intel dual core 2.8 Ghz,G41 chipset,2gb DDR3 RAM,320GB HDD,18.5 TFT monitor	1	1	1
29	Public relation officer B Block,IIIrd Floor,Placement cell Cabins	LENOVO TOWER FORM FACTOR Intel H61 chipset,Intel G3220,2GB RAM,500GB HDD,keyboard,mouse 18.5 TFT	1	1	1
30	AIITS Hostel	Lenovo Desktop M70 Intel dual core 2.8 Ghz,G41	10	10	10

		chipset,2gb DDR3 RAM,320GB HDD,18.5 TFT monitor			
31	H&S Staff Room A block 4 th floor	LENOVO TOWER FORM FACTOR Intel H61 chipset,Intel G3220,2GB RAM,500GB HDD,keyboard,mouse 18.5 TFT	1	1	1
32	Skill Development Lab1	Acer Laptop TMP 249-G2-M2 i5 7 th gen processor 8GB RAM,1TB HDD,Keyboard and mouse	37	37	37
33	Skill Development Lab2	HPZBOOK G4 LAPTOP Intel i5 7 th gen. 16GB DDR4 RAM,1TB HDD,15.6" display,2GB graphics card	36	36	36
34	Placement officer,Principal office	HP Compaq 420 Laptop Intel Pentium DC T4500,intel G40 chipset,1GB RAM,320 GB HDD	02	02	02
	Total		822	822	822


PRINCIPAL
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VENKATAPURAM (VIII.)
RENIGUNTA (M), TIRUPATI-517 920



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Venkatapuram (V), Karakambadi Road, Renigunta (M), Tirupati – 517 520, Chittoor (A.P)

Department of Computer Science and Engineering

LAB INFRASTRUCTURE DETAILS

A-Block (Computer Center-III)

Lab Dimensions: 8.9x21.8m

SQ.MTS:194.02sq.Mts

S.NO	Name of the item	Present Quantity in Nos.
1	Air-conditioners	02
2	Computers	80
3	Chairs(Plastic)	84
4	Fans	14
5	Lights	21
6	LAN Switches	04
7	LAN Wall Mount	01
8	Ups(20KVA)	01
9	Tables(Computer)	30
10	Round Tables(Computer)	02
11	Shoe Stands	05

A-Block (Computer Center-I)

Hardware Facilities

Component Name	Description
Desktop PC'S	80 Nos M70 series Lenovo S500 Desktops
Processor	Pentium I3 processor
chipset	Intel H81
RAM	4GBDDR4
Hard Disk	1TB SATA
Monitor	"19.5"LED Display
USB keyboard	USB keyboard
USB Mouse	USB Mouse
Backup	UPS 20KVA-1 No's


HEAD
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Venkatapuram (V), Karakambadi Road, Renigunta (M), Tirupati - 517 520, Chittoor (A.P)

Department of Computer Science and Engineering

LAB INFRASTRUCTURE DETAILS

B-Block (Computer Center-I)

Lab Dimensions: 42.3x11.9m

SQ.MTS:503.37sq.Mts

S.NO	Name of the item	Present Quantity in Nos
1	Air-conditioners	4
2	Computers	230
3	Chairs(Plastic)	230
4	Fans	20
5	Lights	57
6	LAN Switches	11
7	LAN Wall Mount	2
8	Tables(Computer)	60
9	Staff Table& chair	01
10	Stool	01
11	UPS(External-Online)30KVA with 100AH Batteries	02
12	Internet Broad Band Modem	02
13	Steel Beeruva	01
14	Head sets	60
15	Dustbin	1
16	Shoe Stands	4

B-Block (Computer Center-I)

Hardware Facilities

Component Name	Description
Desktop PC'S	230 Nos 3597 AH4 Lenovo Desktops
Processor	Intel Pentium G630
chipset	G-41 Express
RAM	2GB DD3 RAM(150 Nos) 8GBDDR3(80 Nos)
Hard Disk	250GB SATA
Monitor	"15.6"LED Display
USB keyboard	USB keyboard
USB Mouse	USB Mouse


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Department of Computer Science and Engineering

LAB INFRASTRUCTURE DETAILS

C-Block (Computer Center-II)

Lab Dimensions: 9 x12.5 m

SQ.MTS:112.5 sq.Mts

S.NO	Name of the item	Present Quantity in Nos
1	Air-conditioners	9
2	Beeruva	01
3	White Boards	01
4	Computers	110
5	Chairs(Plastic)	71
6	Fans(Coiling)	13
7	Lights	52
8	LAN Switches	04
9	Printer(Dot Matrix)	02
10	Scanner(HP-A4)	01
11	Ups(20KVA)	02
12	Tables(Computer)	23
13	Servers	02
14	Laptop	02
15	Round Table	02
16	White board stand	01
17	Wall Mount	01
18	Dustbin	01
19	Shoe Stands	03

C-Block (Computer Center-II)

Hardware Facilities

Component Name	Description
Desktop PC'S	Desktop HP280G4-(55)
Processor	Intel Core I3-8100
chipset	G-31 Express
RAM	8GBDDR4
Hard Disk	1TB
Monitor	"18.5" TFT MONITOR(55 Nos)
USB keyboard	USB keyboard
USB Mouse	USB Mouse
Backup	UPS 20KVA-1Nos
Server	Wipro 2Nos Net power Z2501 2*DP Xeon

C-Block (Computer Center-II)

Hardware Facilities

Component Name	Description
Desktop PC'S	42 Nos DELL OPTIPLEX 330
Processor	Intel Core 2 Dual 2.4GHZ
chipset	G-31 Express
RAM	1GB DDR3(42Nos)
Hard Disk	160GB
Monitor	"18.5" TFT Monitor(42 Nos)
USB keyboard	USB keyboard
USB Mouse	USB Mouse
Backup	UPS 20KVA-1Nos
Server	Wipro 2Nos Net power Z2501 2*DP Xeon

C-Block (Computer Center-II)

Hardware Facilities

Component Name	Description
Desktop PC'S	13 Nos Lenovo Desktops M70
Processor	Intel Dual Core 2.8GHZ
chipset	G-41 Express
RAM	4GB DDR3(13Nos)
Hard Disk	320GB
Monitor	"18.5"LCD TFT(13Nos)
USB keyboard	USB keyboard
USB Mouse	USB Mouse
Backup	UPS 20KVA-1Nos
Server	Wipro 2Nos Net power Z2501 2*DP Xeon



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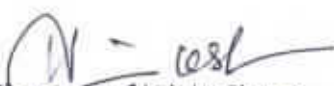
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ENGINEERING CHEMISTRY LAB - LIST OF EQUIPMENTS- 2016-18

S.NO	Name of the equipment	Date of purchase	number	Rate	quantity	Amount
1	BOMB CALORIMETER	29-10-09	1	58292	1	58,292/-
2	WATER STILL	5-10-09	1	4950	1	4,950/-
3	ANALYTICAL BALANCE	5-10-09 20-12-14	1 1	1850 3300	3 3	5,550/- 9,900/-
4	DIGITAL ELECTRONIC BALANCE	5-10-09	1	8500	1	8,500/-
5	DIGITAL CALORIMETER	5-10-09	1	7850	2	15,600/-
6	RED WOOD VISCOMETER-I	5-10-09	1	6500	2	13,000/-
7	RED WOOD VISCOMETER-II	5-10-09	1	6800	2	13,600/-
8	CONDUCTIVITY METTER	5-10-09 24-10-13	1 1	6900 5500	3 2	20,700/- 11,000/-
9	DIGITAL P ^H METER	20-1-16	1	6600	3	19,800/-
10	DIGITAL POTENTIOMETER	20-1-2016	1	6200	3	18,600/-
TOTAL						1,99,492/-


Signature of Lab In-Charge


Signature of HOD
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ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

Department of Physics (H&S)

Engineering Physics Lab (BG 02)

Subject Code: 15A56102 (JNTUA-R15 Regulation)

List of Equipments

2016-18

S.No	NAME OF THE EQUIPMENT	MAKE AND MODEL	DATE OF PURCHASE	QUANTITY	AMOUNT in Rs /-
1.	Stewart and Gee's kit	R&Co	13/11/2013	2	9,000
			14/03/2016	2	5,900
2.	Travelling Microscope	Weswox Optik	29/10/2009	3	19,050
			14/03/2016	3	26,700
3.	Newton's Ring apparatus	R&Co	29/10/2009	2	520
			14/03/2016	3	1275
4.	Spectrometer	Weswox Optik Model HLS-6014949	29/10/2009	3	22200
			14/03/2016	2	19700
5.	Fiber optic trainer kit	Pico-660nm	29/10/2009	1	2975
			14/03/2016	3	30000
6.	Energy gap of a semiconductor diode kit	Texla-D33094	13/11/2013	2	8280
			14/03/2016	2	4500
7.	Hall effect kit	Pico	29/10/2009	1	37700
			14/03/2016	2	131800



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Phone: +91-877-2285608, Fax: +91-877-2285609

Advanced English Communication Skills Lab (15A52602) - Room No: B-305

S.No	NAME OF THE EQUIPMENT	DATE OF PURCHASE	NUMBER AVAILABLE	Rate	Quantity	COST EACH(Rs)
1	Computers	17/04/2013	1	19523	33	6,44,259
2	Oval Shape Tables	-	1	0	-	-
3	LCD Projector	19-10-2007	1	49,855	1	49,855
4	Head Phones	31-05-2013	1	180	30	5,400
5	Licensed Software (K-VAN Advanced Multimedia language lab)	22-09-2009	1	62400	1	62,400
6	Projector Wall screen		1	4900	1	4,900
7	LCD Projector	05/12/2013	1	33000	1	33,000
Total						7,99,814/-

P. Krishna
Lab In charges

P. Krishna
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English Language Communication Skills Lab

(As per JNTUA Norms)

Location: Room No: C207

ELCS LAB—LIST OF EQUIPMENTS – 2016 -18

S.No	NAME OF THE EQUIPMENT	DATE OF PURCHASE	NUMBER AVAILABLE	Rate	Quantity	COST EACH(Rs)
1	Computers	12-6-2007	1	19,000	65	12,35,000
2	Head phones	15-10-2007& 24-11-2008	1	300	65	19,500
3	LCD Projector	19-10-2007	1	49,855	1	49,855
4	Audio Amplifier with speakers	28-8-2009	1	10,800	1+4	10,800
5	K-VAN SOFTWARE (For I B.Tech)	11-5-2007	1	60,000	1	60,000
Total						13,75,155


Signature of Lab Incharge


Signature of HoD
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