



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 | I.S 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 |



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 |



Annamacharya Institute of Technology & Sciences, Tirupathi
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Recognized under section 2(f) & 12(B) of UGC act 1956.

Department of Civil Engineering



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) | 2,10,000 |
| 13 | Total station (2 No's) | 5,07,000 |



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TRANSPORTATION ENGINEERING 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 |
| 13 | Concrete pan mixer | 1,71,000 |



ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

(AUTONOMOUS)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

e-mail: aitscse.tpt@gmail.com

website: aits-tpt.edu.in

Laboratories (Department-wise for UG & PG):

Date: 11-04-2022

a) Consolidated details of existing laboratories

| S.No | Name of the course* with Branch | Name of the Laboratory | Equipment | Quantity |
|------|--|--|---|----------|
| 1. | B.Tech CSE & M.Tech CSE | A-Block (Computer Center-III) (VINT CERF Lab) | Air-conditioners | 02 |
| | | | Computers | 80 |
| | | | Chairs(Plastic) | 84 |
| | | | Fans | 14 |
| | | | Lights | 21 |
| | | | LAN Switches | 04 |
| | | | LAN Wall Mount | 01 |
| | | | Ups(20KVA) | 01 |
| | | | Tables(Computer) | 30 |
| | | | Round Tables(Computer) | 02 |
| | | | Shoe Stands | 05 |
| | | | Air-conditioners | 02 |
| | | | Computers (80 Nos M70 seriesLenovo S500 Desktops Pentium I3 processor, Intel H81Chipset, 4GBDDR4, 1TB SATA, “19.5”LED Display,USB Keyboard,USB Mouse.) | 80 |



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Laboratories (Department wise for UG & PG):

| S.No | Name of the course* with Branch | Name of the Laboratory | Equipment | Quantity |
|------|--|---|---|----------|
| 1. | B.Tech CSE & M.Tech CSE | B-Block (Computer Center-I) (GOSLING Lab & RITCHIE Lab) | Air-conditioners | 4 |
| | | | Computers(230 No's 3597 AH4 Lenovo Desktops, Intel Pentium G630,G-41 Express Chipset, 2GB DD3 RAM(150 No's)8GBDDR3(80 No's) 250GB SATA, "15.6"LED Display,USB keyboard,USB Mouse) | 230 |
| | | | Chairs(Plastic) | 230 |
| | | | Fans | 20 |
| | | | Lights | 57 |
| | | | LAN Switches | 11 |
| | | | LAN Wall Mount | 2 |
| | | | Tables(Computer) | 60 |
| | | | Staff Table& chair | 01 |
| | | | Stool | 01 |
| | | | UPS(External-Online)30KVA with 100AH Batteries | 02 |
| | | | Internet Broad Band Modem | 02 |
| | | | Steel Beeruva | 01 |
| | | | Head sets | 60 |
| | | | Dustbin | 1 |
| | | | Shoe Stands | 4 |



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| S.No | Name of the course* with Branch | Name of the Laboratory | Equipment | Quantity |
|------|---------------------------------|--|--|----------|
| 1. | B.Tech CSE & M.Tech CSE | C-Block (Computer Center-II) (TIM BERNERS LEE Lab & AHOULLMAN Lab) | Air-conditioners | 9 |
| | | | Beeruva | 01 |
| | | | White Boards | 01 |
| | | | Computers(Desktop HP280G4-(55), TFT MONITOR(55 No's), Intel Core I3-8100,G-31 Express Chipset, 8GBDDR4,1TB HDD, 18.5" TFT MONITOR, USB keyboard, USB Mouse), Computers(Desktop HP280G6-(55), TFT MONITOR(55 No's), Intel Core I5-10500,G-31 Express Chipset, 16GBDDR4,1TB HDD, 18.5" TFT MONITOR, USB keyboard, USB Mouse), | 110 |
| | | | Chairs(Plastic) | 71 |
| | | | Fans(Ceiling) | 13 |
| | | | Lights | 52 |
| | | | LAN Switches | 04 |
| | | | Printer(Dot Matrix) | 02 |
| | | | Scanner(HP-A4) | 01 |
| | | | Ups(20KVA) | 02 |
| | | | Tables(Computer) | 23 |
| | | | Servers | 02 |
| | | | Laptop | 02 |
| | | | Round Table | 02 |
| | | | White board stand | 01 |
| | | | Wall Mount | 01 |
| | | | Dustbin | 01 |
| | | | Shoe Stands | 03 |



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Laboratories (Department wise for UG & PG):

| S.No | Name of the course* with Branch | Name of the Laboratory | Equipment | Quantity |
|------|--|--|---|----------|
| 1. | B.Tech CSE & M.Tech CSE | D- Lab (JOHN MCCARTHY Lab) | Air-conditioners | 04 |
| | | | Beeruva | 0 |
| | | | White Boards | 0 |
| | | | HP280G6 Desktop : Core-i5 -10500,16GB DDR4 RAM,1TB HDD ,18.5 TFT Monitor ,USB mouse and USB Key Board | 75 |
| | | | Chairs(Plastic) | 80 |
| | | | Fans(Ceiling) | 08 |
| | | | Lights | 24 |
| | | | LAN Switches | 04 |
| | | | Printer(Dot Matrix) | - |
| | | | Scanner(HP-A4) | - |
| | | | Ups(20KVA) | 1 |
| | | | Tables(Computer) | 08 |
| | | | Servers | - |
| | | | Wall Mount | 1 |
| | | | Dustbin | 1 |
| | | | Shoe Stands | 1 |

HOD-CSE

Principal



**ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES::TIRUPATI
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A-grade awarded by AP Knowledge Mission; Accredited by the Institution of Engineers IE(I), Kolkata;

Recognized under sections 2(f) & 12 (B) of UGC Act 1956)

e-mail: aitstpt@yahoo.com

Ph: 0877 – 2285608/9 website: aits-tpt.edu.in

Department of Electronics and Communication Engineering

Name of Laboratory: Electronic Devices and Circuits Lab

| S.No | Name of the Equipment | Quantity | Cost |
|--------------|-------------------------------------|----------|---------------|
| 1 | CRO | 12 | 202000 |
| 2 | DMM | 15 | 18905 |
| 3 | Bread board trainer kit | 8 | 30600 |
| 4 | Servo controlled voltage stabilizer | 1 | 9500 |
| 5 | Function Generators | 20 | 104350 |
| 6 | Kits for ECA lab | 14 | 27780 |
| 7 | Regulated Power Supply | 12 | 56855 |
| 8 | Decade resistance box | 6 | 9900 |
| 9 | Decade inductance box | 6 | 15600 |
| 10 | Decade capacitance box | 6 | 13500 |
| 11 | Ac milli voltmeters | 3 | 10500 |
| 12 | Analog ammeters | 56 | 59127 |
| 13 | Voltmeters | 28 | 33892 |
| 14 | Rheostats | 12 | 60820 |
| TOTAL | | | 653329 |

Head of the Department

Principal



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Ph: 0877 – 2285608/9 website: aits-tpt.edu.in

Department of Electronics and Communication Engineering

Name of Laboratory: IC APPLICATIONS LAB

| S.No | Name of the Equipment | Quantity | Cost |
|--------------|-------------------------------------|----------|---------------|
| 1 | Cathode Ray Oscilloscope | 18 | 287000 |
| 2 | Oscilloscope Probes | 20 | 5000 |
| 3 | Function Generator | 18 | 94757 |
| 4 | Regulated Power Supply | 13 | 47718 |
| 5 | IC Regulated Power supply | 3 | 1350 |
| 6 | Bread Board Trainer System | 7 | 26775 |
| 7 | Decade Resistance Box | 5 | 8250 |
| 8 | Decade Inductance Box | 5 | 13000 |
| 9 | Decade Capacitance Box | 5 | 11250 |
| 10 | Linear IC Tester | 1 | 7315 |
| 11 | Digital Multimeters | 7 | 11041 |
| 12 | Ammeters | 7 | 5822 |
| 13 | Voltmeters | 6 | 6669 |
| 14 | Rheostats | 4 | 8546 |
| 15 | ASLK Pro Kits | 12 | 75947 |
| 16 | Servo Controlled Voltage Stabilizer | 1 | 9500 |
| 17 | Bistable Multivibrator Kit | 2 | 4200 |
| 18 | Monostable Multivibrator Kit | 2 | 4200 |
| TOTAL | | | 628340 |

Head of the Department

Principal



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Department of Electronics and Communication Engineering

Name of Laboratory: Signal Processing and VLSI Lab

| S.No | Name of the Equipment | Quantity | Cost |
|--------------|---|------------------|----------------|
| 1 | D-Link 24 Port Switch | 3 | 13650 |
| 2 | 20kva Ups System with Dc Power Pack | 1 | 270000 |
| 3 | Xilinx9.2 Ise With Trainer Kits | 24 USERS & 1 KIT | 54288 |
| 4 | DSP Trainer Kits | 3 | 94500 |
| 5 | Computers | 67 | 2134620 |
| 6 | MATLAB 8.2 | 30 USERS | 1086757 |
| 7 | Multisim Software | 05 USERS | 157500 |
| 8 | Plagarism Detector | 1 | 1792 |
| 9 | Computer | 1 | 24850 |
| 10 | 12v 65ah Quanta VRLA/SMF Battery | 20 | 93000 |
| 11 | DSP Starter Kit | 5 | 174075 |
| 12 | CRO | 8 | 156000 |
| 13 | Function Generators | 8 | 49600 |
| 14 | RPS | 8 | 53760 |
| 15 | CRO Probes | 10 | 2500 |
| 16 | IoT Lab Kits(Set of 30 Items) | 20 | 33000 |
| 17 | TIVA Launch Pad(15) Pot Meter+Wires(15) Boost XL-Senshub(5) ULN Driver Board(15) | 50 | 42952 |
| TOTAL | | | 4442844 |

Head of the Department

Principal



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Department of Electronics and Communication Engineering

Name of Laboratory: Microprocessors and Microcontrollers Lab

| S.No | Name of the Equipment | Quantity | Cost |
|--------------|--|----------|----------------|
| 1 | Computers (Core 2 Duo 2.4 GHz Processor, 1GB RAM, 320GB HDD) | 30 | 672700 |
| 2 | 8086 Microprocessor kit with Power Supply Adapters, TASM and MASM | 9 | 36000 |
| 3 | 8051 Microcontrollers kit with Power Supply Adapters | 7 | 31500 |
| 4 | 8255 Study Cards | 8 | 18600 |
| 5 | 8259 Study Cards | 8 | 19900 |
| 6 | 8251 Study Cards | 8 | 18400 |
| 7 | Traffic Light Controller Interface | 2 | 1750 |
| 8 | 8279 Study Card | 8 | 20100 |
| 9 | Elevator Interface | 2 | 1750 |
| 10 | ADC Interface | 8 | 10450 |
| 11 | Dual DAC Interface | 8 | 11050 |
| 12 | NEXSYS 3 Spartan 6 FPGA Board | 1 | 15800 |
| 13 | MSP 430 Launch Pad, Booster, Experimenter Board and DC Motors and Embedded System kitsMSP430FR5969 | 15 | 134513 |
| 14 | ALS-SDA-86ME Micro Processor trainer kit | 16 | 136000 |
| 15 | ALS-SDA-51ME Micro Controller Trainer Kit | 16 | 136000 |
| 16 | RS 232 -9 Pin DB Connector | 32 | 8800 |
| 17 | 26 FRC Cables | 16 | 2640 |
| 18 | 56 FRC Cables | 16 | 3600 |
| 19 | USB to Serial Converters | 32 | 38400 |
| 20 | ALS-SDA CPLD/FPGA Universal trainer Kit | 1 | 21866 |
| TOTAL | | | 1339819 |

Head of the Department

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Department of Electronics and Communication Engineering

Name of Laboratory: Analog and Digital Communications Lab and MWOC Lab

| S.No | Name of the Equipment | Quantity | Cost |
|--------------|---|----------|----------------|
| 1 | Microwave Test Benches with Klystron Source | 6 | 390770 |
| 2 | Microwave Gunn Source | 4 | 270400 |
| 3 | Optical Communications Kits | 8 | 186100 |
| 4 | Cathode Ray Oscilloscopes | 4 | 78000 |
| 5 | Analog Communications Kits | 10 | 28683 |
| 6 | Analog Communications Kits | 2 | 5533 |
| 7 | Analog Communications Kits | 8 | 20146 |
| 8 | Analog Communications Kits | 3 | 11700 |
| 9 | Cathode Ray Oscilloscopes | 7 | 98000 |
| 10 | Oscilloscopes Connectors | 10 | 2500 |
| 11 | Digital Communication Kits | 5 | 192600 |
| 12 | Dual DC Regulated Power Supplies | 3 | 20160 |
| 13 | Function Generators | 6 | 37200 |
| 14 | Digital Multimeters | 3 | 6000 |
| 15 | DC Kits | 5 | 31800 |
| 16 | AC Kits | 6 | 18255 |
| TOTAL | | | 1397847 |

Head of the Department

Principal



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Department of Electronics and Communication Engineering

Name of Laboratory: UNMANNED AERIAL VEHICLE (UAV) Lab

(AICTE Sponsored MODROB Lab)

| S.No | Name of the Equipment | Quantity | Cost |
|--------------------|--|----------|-----------------|
| 1 | FPV Quadcopter Drone 2.0 MP, WiFi, 720p, 120 degree wide angle camera | 1 | 25,000 |
| 2 | SYMA X5SW Quad copter 0.3 MP, RTF, WiFi Headless Mode, 6- Axis 360 degree | 1 | 20,400 |
| 3 | Plastic Quad copter with Propulsion Kit | 1 | 40,700 |
| 4 | 1080p FPV Insight 5G 100mW HDMI Wireless Video Transmitter | 1 | 28,050 |
| 5 | Micro Quadcopter YH Equipment with 720p camera, Remote Control | 1 | 20,800 |
| 6 | Sensors | 1 | 15,600 |
| 7 | RC Flight Simulator | 1 | 10,400 |
| 8 | Precision Hawk Tool Set | 1 | 5,30,000 |
| 9 | Miscellaneous Components Connectors, Cables, Wire, Soldering Iron, Plugs, Screws, Bolts, Nuts, and Adhesives | | 18,000 |
| Sub Total | | | 7,08,950 |
| GST 18% | | | 1,27,611 |
| Grand Total | | | 8,36,561 |

Head of the Department

Principal



ANNAMACHARYA

INSTITUTE OF TECHNOLOGY AND SCIENCES, TIRUPATI
(AUTONOMOUS)



Department of Electrical and Electronics Engineering

Laboratory Hall Name: Control Systems and Simulation lab(15A02405)

Laboratory Hall No:CG04

Academic Year::2021-2022

| S.No. | Name of the Equipment | Number Available | Cost of the Equipment (Rs.) |
|--------------|---|------------------|-----------------------------|
| 1. | Characteristics of magnetic amplifier | 1 | 16,650/- |
| 2 | Effect of feedback on AC Servo Motor | 1 | 16,650/- |
| 3 | Characteristics of Synchros (Synchro Transmitter receiver pair) | 1 | 16,650/- |
| 4 | Effect of P, PI, PID controller on a second order system | 1 | 11,232/- |
| 5 | Linear System Simulator (Time response of second order system) | 1 | 7,904/- |
| 6 | Lead and Lag Compensation of Magnitude and Phase Plot | 1 | 8,736/- |
| 7 | Transfer function of DC Motor | 1 | 25,380/- |
| 8 | Temperature controller using PID | 1 | 15,800/- |
| 9 | 5kva Servo Stabilizer | 1 | 13,007/- |
| 10 | Decade Resistance Box | 3 | 1,000/- |
| 11 | Decade Inductance Box | 2 | 1,800/- |
| 12 | Decade Capacitance Box | 2 | 2,000/- |
| 13 | Programmable logic controller-study & Verification of truth table of logic gates, Simple Boolean Expression | 1 | 36,000/- |
| 14 | Effect of feedback on DC Servo Motor. | 1 | 28,800/- |
| 15 | CRO Dual Trace 30MHZ | 4 | 78,000/- |
| 16 | CRO Probes | 8 | 6,800/- |
| 17 | R Load (50Ω/2A) | 1 | 4,125/- |
| Total Amount | | | 2,90,384/- |

HOD-EEE



ANNAMACHARYA
INSTITUTE OF TECHNOLOGY AND SCIENCES,
TIRUPATI:: (AUTONOMOUS)
Department of Electrical and Electronics
Engineering



B. Tech 1st Year-II Semester EEE & ECE, Regulations-(R15)
Academic Year: 2021-2022

Laboratory Hall Name : Electrical Circuits Lab & Network Analysis Lab
Laboratory Code : 15A02302
Laboratory Hall No : BG01-a
AREA : 48 Sq Meters

LIST OF EXPERIMENTS

| S.No. | Name of Experiment | Description of Equipment | Make | Number Available | Cost |
|-------|---|--|---------------------|------------------|-------------|
| 1 | Verification of Thevenin’s and Norton’s Theorems | Digital Multimeters | PHYSITECH & S.S.LAB | 10 | 20,100.00 |
| 2 | Verification of Superposition Theorem and Maximum Power Transfer Theorem | | | | |
| 3 | Verification of Compensation Theorem | Bread Boards | | 13 | 1,210.00 |
| 4 | Verification of Reciprocity Theorem | Regulated power supply(RPS) Dual | PHYSITECH & S.S.LAB | 10 | 60,320.00 |
| 5 | Z and Y Parameters | | | | |
| 6 | Transmission and Hybrid Parameters | | | | |
| 7 | Verification of Millmann’s Theorems | Milliman’s theorem Kit | SS LAB EQUIPMEN TS | 1 | 1,650.00 |
| 8 | Locus Diagrams of RL and RC Series Circuits | Current locus diagram kit | | 1 | 1,650.00 |
| | | Decade Resistance Box | | 2 | 3,600.00 |
| | | Decade Inductance Box | | 2 | 6,000.00 |
| | | Decade Capacitance Box | | 2 | 6,000.00 |
| 9 | Series and Parallel Resonance | Decade Resistance Box | | 2 | 3,600.00 |
| | | Decade Inductance Box | | 2 | 6,000.00 |
| | | Decade Capacitance Box | | 2 | 6,000.00 |
| | | CRO with probes | | 5 | 99,000.00 |
| | | Function Generator | | 2 | 11,000.00 |
| 10 | Determination of Self, Mutual Inductances and Coefficient of Coupling | 1 phase Variac | | 1 | 5,500.00 |
| 11 | Measurement of Active Power for Star and Delta Connected Balanced Loads | Analog volt meters,AC 600V | | 3 | 6,000.00 |
| | | Analog ammeter, AC 10 A | | 3 | 6,000.00 |
| | | UPF watt meter 600V/10A | | 2 | 11,000.00 |
| 12 | Measurement of Reactive Power for Star and Delta Connected Balanced Loads | LPF watt meter 300V/150V,5A/2.5 A | | 1 | 5,500.00 |
| | | 3 phase resistive load | | 1 | 16,600.00 |
| 13 | Measurement of 3-Phase Power by Two Wattmeter Method for Unbalanced Loads | Three phase Variac | 1 | 22,000.00 | |
| | | 3 phase Inductive load | 1 | 18,000.00 | |
| 14 | Constant K-Low pass & High pass filter | Constant K-Low pass & High pass filter Kit | 1 | 1,800.00 | |
| | | | | Total | 3,18,530.00 |

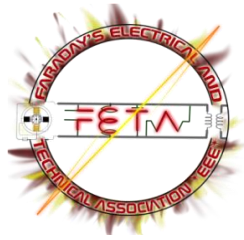
LAB INCHARGE

HOD-EEE



ANNAMACHARYA

INSTITUTE OF TECHNOLOGY AND SCIENCES, TIRUPATI
(AUTONOMOUS)



Department of Electrical and Electronics Engineering

Laboratory Hall Name: Electrical measurements lab(15A02507)

Laboratory Hall No:CG03

Academic Year :: 2021-2022

Equipments With Cost

| S.No. | List of Experiments | Make | Total cost of the Equipments |
|------------|--|--|------------------------------|
| 1 | Calibration and Testing of Single Phase Energy Meter | SS Lab equipments | 36,000.00 |
| 2 | Calibration of Dynamometer Power Factor Meter | SS Lab equipments | 31,900.00 |
| 3 | Crompton D.C. Potentiometer Calibration of PMMC Ammeter and PMMC Voltmeter. | SS Lab equipments & Valika Electronics | 23,400.00 |
| 4 | Kelvin's Double Bridge Measurement of Resistance – Determination of Tolerance. | SS Lab equipments & Valika Electronics | 10,000.00 |
| 5 | Measurement of % Ratio Error and Phase Angle of Given C.T. by Comparison. | SS Lab equipments & Valika Electronics | 52,950.00 |
| 6 | Schering Bridge & Anderson Bridge. | SS Lab equipments | 14,700.00 |
| 7 | Measurement of 3 Phase Reactive Power with Single-Phase Wattmeter. | SS Lab equipments & Physitech | 44,500.00 |
| 8 | Measurement of Parameters of a Choke Coil Using 3 Voltmeter and 3 Ammeter Methods. | SS Lab equipments | 12,500.00 |
| 9 | Calibration LPF Wattmeter by Phantom Testing. | SS Lab equipments & Valika Electronics | 23,600.00 |
| 10 | LVDT and Capacitance Pickup Characteristics and Calibration. | SS Lab equipments | 10,000.00 |
| 11 | Resistance Strain Gauge-Strain Measurements And Calibration. | Valika Electronics | 13,500.00 |
| 12 | Measurement of 3 Phase Power with Two Watt Meter Method (Balanced & Un balanced). | Valika Electronics | 26,127.00 |
| 13 | Dielectric Oil Testing Using H.T. Testing Kit. | Valika Electronics | 27,500.00 |
| Total Cost | | | 326,677.00 |

HOD/EEE



ANNAMACHARYA

INSTITUTE OF TECHNOLOGY AND SCIENCES, TIRUPATI
(AUTONOMOUS)



Department of Electrical and Electronics Engineering

Laboratory Hall Name: ELECTRICAL MACHINES- I LAB(15A02302)

Laboratory Hall No:CG08

Academic Year:2021-2022

| S.No. | Name of the Equipment | Number Available | Cost of the Equipment (Rs.) |
|--------------|---|------------------|-----------------------------|
| 1. | Magnetization characteristics of DC shunt generator. Determination of critical field resistance and critical speed. | 1 | 62,750/- |
| 2 | Load test on DC shunt generator. Determination of characteristics | 1 | 62,750/- |
| 3 | Load test on DC series generator. Determination of characteristics. | 1 | 62,750/- |
| 4 | Load test on DC compound generator. Determination of characteristics. | 1 | 62,750/- |
| 5 | Hopkinson's test on DC shunt machines. Predetermination of efficiency | 1 | 62,750/- |
| 6 | Fields test on DC series machines. Determination of efficiency. | 1 | 62,750/- |
| 7 | Swinburne's test and speed control of DC shunt motor. Predetermination of efficiencies. | 1 | 32,350/- |
| 8 | Brake test on DC compound motor. Determination of performance curves. | 1 | 42,750/- |
| 9 | Brake test on DC shunt motor Determination of performance curves. | 1 | 42,750/- |
| 10 | Separation of losses in DC shunt motor. | 1 | 42,750/- |
| Total Amount | | | 5,37,100/- |

HOD-EEE



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INSTITUTE OF TECHNOLOGY AND SCIENCES, TIRUPATI
(AUTONOMOUS)



Department of Electrical and Electronics Engineering

Laboratory Hall Name: ELECTRICAL MACHINES- II LAB(15A02506)

Laboratory Hall No:CG01

Academic Year:2021-2022

| S.No. | Name of the Equipment | Number Available | Cost of the Equipment (Rs.) |
|--------------|---|------------------|-----------------------------|
| 1. | O.C. & S.C. Tests on Single phase Transformers.. | 1 | 7,890/- |
| 2 | Sumpner's test on a pair of Single phase Transformers. | 1 | 8,990/- |
| 3 | Scott connection of Transformers. | 1 | 9,950/- |
| 4 | Regulation of a three –phase alternator by Synchronous Impedance Method | 1 | 76,050/- |
| 5 | V and Inverted V curves of a three-phase Synchronous Motor. | 1 | 81,650/- |
| 6 | Equivalent Circuit of a single phase Induction Motor. | 1 | 29,380/- |
| 7 | Determination of X_d and X_q of a Salient pole synchronous Machine. | 1 | 76,050/- |
| 8 | Parallel operation of Single Phase Transformers. | 1 | 8,990/- |
| 9 | Separation of core losses of a Single Phase Transformer. | 1 | 8,990/- |
| 10 | Brake test on Three phase Induction Motor. | 1 | 44,750/- |
| Total Amount | | | 3,52,690/- |

HOD-EEE



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INSTITUTE OF TECHNOLOGY AND SCIENCES, TIRUPATI
(AUTONOMOUS)



Department of Electrical and Electronics Engineering

Laboratory Hall Name: Power Electronics and Simulation lab(15A02607)

Laboratory Hall No:CG04

Academic Year::2021-2022

| S.No. | Name of the Equipment | Number Available | MAKE | Cost of the Equipment (Rs.) |
|-------|--|------------------|---------------------------------|-----------------------------|
| 1 | Study of characteristics of SCR, MOSFET, IGBT | 1 | SS LAB | 6,050/- |
| 2 | Gate firing circuits of SCR's | 1 | | 4,345/- |
| 3 | Single Phase AC Voltage Controller With R & RL Loads | 1 | | 7,480/- |
| 4 | Single Phase Fully Controlled Bridge Converter With R & RL Loads | 1 | | 24,090/- |
| 5 | Forced Commutation Circuits for SCR | 1 | | 10,010/- |
| 6 | DC Jones Chopper with R & RL Loads | 1 | | 20,620/- |
| 7 | Single phase Cyclo Converter R & RL Loads | 1 | | 28,215/- |
| 8 | Single Phase Series Inverter with R & RL Loads | 1 | | 18,750/- |
| 9 | Single Phase Parallel Inverter with R & RL Loads | 1 | PHYSITECH POWER SYSTEMS LIMITED | 21915/- |
| 10 | Single Phase Half Controlled Bridge Converter with R & RL Loads | 1 | | 23,275/- |
| 11 | Three Phase Half Controlled Bridge Converter R & RL Loads | 1 | | 47,390/- |
| 12 | Single Phase Dual Converter Trainer Kit | 1 | | 19,800/- |
| 13 | Rheostats-50Ω/2A | 2 | | 2,150/- |
| 14 | Rheostats-150Ω/5A | 1 | | 6,250/- |
| 15 | Cathode Ray Oscilloscope | 7 | PHYSITECH | 1,43,500/- |

| | | | | |
|--------------|--|---|--------|------------|
| 16 | 5 KVA SERVO STABILIZER | 1 | SS LAB | 10,500/- |
| 17 | Illumination control/Fan motor control using TRIAC:- Fan motor(230V AC) speed control circuit using Triac-Diac | 1 | | 6,500 |
| 18 | Using TPS7A4901 and TPS7A8300,Study kit | 1 | | 20,250 |
| 19 | Study of DC-DC Buck converter TPS54160 study unit | 1 | | 20,250 |
| 20 | Study of Buck regulator LM3475 study unit | 1 | | 20,250 |
| 21 | WEBENCH EXPERIMENTS | 1 | | 18,000 |
| | Accessories required | | | |
| | (i)Unregulated power supply 30V/4A | 2 | | 25,500 |
| | (ii)4.5 digital resolution Digital Multimeter | 1 | | 7,250 |
| | (iii)200 ohms/1.5 amps rheostat | 1 | | 3,750 |
| | (iv)10 ohms 50 watts POT | 1 | | 1,250 |
| | (v)100 ohms 50 watts POT | 1 | | 1,250 |
| | (vi)10 ohms/3amps rheostat | 1 | | 3,750 |
| TOTAL AMOUNT | | | | 5,28,650/- |

HOD-EEE



ANNAMACHARYA

INSTITUTE OF TECHNOLOGY AND SCIENCES, TIRUPATI

Department of Electrical & Electronics Engineering
(AUTONOMOUS)



Laboratory Hall :POWER CONVERTERS Lab
M.TECH

Laboratory Hall No: BG01-A

Academic Year::2021-2022

| S. No. | Name of the Equipment | Number Available | Cost of the Equipment (Rs.) | MAKE |
|--------------|---|------------------|-----------------------------|---------------|
| 1 | SPEED MEASUREMENT AND CLOSED LOOP CONTROL USING PMDC MOTOR | 1 | 42,000 | S.S Lab Equip |
| 2 | THYRISTORISED DRIVE FOR PMDC MOTOR | 1 | 48,300 | |
| 3 | IGBT USED SINGLE 4QUADRANT CHOPPER DRIVE FOR PMDC MOTOR | 1 | 48,300 | |
| 4 | THYRISTORISED DRIVE FOR 1 HP DC MOTOR WITH CLOSELOOP CONTROL | 1 | 93,100 | |
| 5 | THREE PHASE INPUT, THYRISTERISED DRIVE, 3 HP DC MOTOR WITH CLOSED LOOP CONTROL | 1 | 96,600 | |
| 6 | THREE PHASE INPUT, IGBT, 4 QUADRANT CHOPPER DRIVE FOR DC MOTOR WITH CLOSED LOOP CONTROL | 1 | 88,900 | |
| 7 | CYCLO CONVERTER ON AC INDUCTION MOTOR | 1 | 37,100 | |
| 8 | SPEED CONTROL OF THREE PHASE WOUND ROTOR IM/SLIP RING IM(5 Hp) | 1 | 65,800 | |
| 9 | 3 Hp DC MOTOR WITH LOADING ARRANGEMENTS | 1 | 42,000 | |
| 10 | 0.5 Hp DC MOTOR WITH LOADING ARRANGEMENTS | 1 | 21,000 | |
| Total Amount | | | 5,83,100 | |

HOD-EEE



ANNAMACHARYA

INSTITUTE OF TECHNOLOGY AND SCIENCES, TIRUPATI
(AUTONOMOUS)



Department of Electrical & Electronics Engineering

Laboratory Hall Name: ELECTRICAL MACHINES & POWER SYSTEMS LAB
M TECH

Laboratory Hall No: BG01-b
Academic Year::2021-2022

| S. No. | Name of the Equipment | Number Available | Cost of the Equipment (Rs.) | MAKE |
|--------------|--|------------------|-----------------------------|-----------------------|
| 1 | CHARACTERISTICS OF IDMT OVER CURRENT RELAY | 1 | 99,600 | DELTA ELECTRO SYSTEMS |
| 2 | CHARACTERISTICS OF NEGATIVE SEQUENCE RELAY | 1 | 98,800 | |
| 3 | CHARACTERISTICS OF OVER VOLTAGE RELAY (Electromagnetic type) | 1 | 98,600 | |
| 4 | CHARACTERISTICS OF OVER VOLTAGE RELAY (Microprocessor type) | 1 | 98,800 | |
| 5 | CHARACTERISTICS OF PERCENTAGE BIASED DIFF RELAY | 1 | 1,56,700 | |
| 6 | EQUIVALENT CIRCUIT OF 3WINDING T/F | 1 | 1,65,000 | |
| Total Amount | | | 7,17,500 | |

HOD-EEE



ANNAMACHARYA

INSTITUTE OF TECHNOLOGY AND SCIENCES, TIRUPATI
(AUTONOMOUS)



Department of Electrical & Electronics Engineering

Laboratory Hall Name: Power Systems & Simulation Lab (15A02710)

Laboratory Hall No: BG01-b

Academic Year::2021-2022

| S. No. | Name of the Equipment | Number Available | Cost of the Equipment (Rs.) | MAKE |
|--------------|---|------------------|-----------------------------|---|
| 1 | Determination of Sequence Impedances of Cylindrical Rotor Synchronous Machine. | 1 | 1,33,200.00 | PHYSITECH POWER SYSTEMS PVT. LTD |
| 2 | Fault Analysis – I (i) Line to Line (LL) Fault : (ii) Line to Ground (LG) Fault : | 1 | 35,200.00 | |
| 3 | Fault Analysis – II: (i) LLG Fault: (ii) LLLG Fault: | 1 | 35,200.00 | |
| 4 | Determination of Sub-transient Reactance of Salient Pole Synchronous Machine. | 1 | 94,400.00 | |
| 5 | Equivalent Circuit of a Three Winding Transformer. Equipment Required: | 1 | 33,840.00 | |
| Total Amount | | | 3,31,840.00 | |

HOD-EEE

Annamacharya Institute of Technology and Sciences: Tirupati
(Autonomous)

Department of Chemistry (H&S)

Chemistry (20ABS9910) & Engineering Chemistry Laboratory (20ABS9909)

List of Equipments

Lab Hall Number: BG05

AY:2021-22

| S.No | Name of Equipment | Specifications | No. of Equipment |
|-------------|------------------------------|-----------------------|-------------------------|
| 1 | Analytical Balance | Keroy | 6 |
| 2 | Conductivity Bridge | Digisun | 11 |
| 3 | Colorimeter | Elico | 2 |
| 4 | Red Wood Viscometer 1&2 | Deep Version | 7+7 |
| 5 | Bomb Calorimeter | Deep Version | 1 |
| 6 | Digital P ^h Meter | Lt10 | 8 |
| 7 | Digital Potentiometer | Lt32 | 9 |
| 8 | Digital Electronic Balance | Cyber Lab | 2 |
| 9 | Photo Calorimeter | Systronics 113 | 9 |

HOD

Principal

Annamacharya Institute of Technology and Sciences: Tirupati
(Autonomous)

Department of English (H&S)

Communicative English Lab (20AHS9901)

Laboratory Hall Number: C207

AY:2021-22

List of Equipments & Components

| S.No | Name of the Equipment | Make and Model | Quantity |
|-------------|----------------------------------|---|-----------------|
| 1 | Desktops | Lenovo-M70 Series, G41 Chipset, 4GB RAM, 320GB Hard Disk, 18.5” TFT Screen, Keyboard and mouse. | 66 |
| 2 | Software | K-van solutions | 66 |
| 3 | Headphones | HP headphone with mic | 63 |
| 4 | Sound Amplifier | Ahuja | 1 |
| 5 | Hand mikes | Ahuja | 2 |
| 6 | Air-Conditioners(2 ton Capacity) | LG | 4 |
| 7 | <u>Projector</u> | Casio XJ V1LED Projector | 1 |
| 8 | Wall mount speakers | Ahuja | 4 |
| 9 | Chairs | Neelkamal | 67 |
| 10 | Storewell | Bureau | 1 |

| | | | |
|----|---|--|---|
| 11 | Table | Godrej | 1 |
| 12 | White marker board | Sri Balaji paper enterprises, Tirupati | 1 |
| 13 | Network Components: Switches (24 ports) | Immense Technologies, Rajampet | 3 |
| 14 | Wall Rack (9V Rack) | Immense Technologies, Rajampet | 1 |

HOD

Principal

Annamacharya Institute of Technology and Sciences: Tirupati
(Autonomous)

Department of Physics (H&S)

Applied Physics Lab (20ABS9907) & Engineering Physics Lab (20ABS9908)

List of Equipments & Components

Laboratory Hall Number: BG04, DG02&DG04

AY:2021-22

| S.No | Name of the Equipment | Make and Model | Quantity |
|-------------|---|--|-----------------|
| 1. | Stewart and Gee's kit | R&Co | 8 |
| 2. | Travelling Microscope | Weswox Optik | 9 |
| 3. | Newton's Ring apparatus | R&Co | 5 |
| 4. | Spectrometer | Weswox Optik Model HLS-6014949 | 8 |
| 5. | Fiber optic trainer kit | Pico-660nm | 3 |
| 6. | Energy gap of a semiconductor diode kit | Texla-D33094 | 5 |
| 7. | Hall effect kit | Pico | 3 |
| 8. | B-H trailer kit | Pico | 4 |
| 9. | Cathode Oscilloscope (CRO) | Pacific-Dual trace oscilloscope-POS-20 | 4 |
| 10. | He-Ne Laser source | NA | 3 |
| 11. | Magnetic Stirrer | REMI-2MLH | 2 |

| | | | |
|-----|---|----------------|---|
| | | with hot plate | |
| 12. | Battery Eliminators | R&Co- 2 amps | 4 |
| 13. | Digital PH meter | Eutek | 2 |
| 14. | Ultrasonic velocity-acoustic grating kit | Ycoo™ | 2 |
| 15. | Strain gauge (temperature) sensor kit | Ycoo™ | 3 |
| 16. | RC circuit trainer kit with digital meter | Ycoo™ | 5 |
| 17. | Pressure optical fiber sensor kit | Ycoo™ | 3 |
| 18. | Spring constant kit | NA | 4 |
| 19. | Thermister kit | Ycoo™ | 3 |

HOD

Principal

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: TIRUPATI

Stock Available in respective rooms

Name of the Department : COMPUTER SCIENCE ENGINEERING (CSE)

| Sl.No. | Room No. | Fans | Lights | Desks (Mention Seater) | Other items (if any) |
|--------|----------------------|------|--------|------------------------|---------------------------|
| 1 | A 201 | 6 | 2 | 24 (3 Seater) | Camera, Standing Bench |
| 2 | A 203 | 6 | 2 | 24 (3 Seater) | Projector, Standing Bench |
| 3 | C 404 | 6 | 2 | 24 (3 Seater) | Camera, Bench, Chair |
| 4 | A 301 | 6 | 2 | 24 (3 Seater) | Camera, Bench |
| 5 | A 304 | 6 | 2 | 24 (3 Seater) | Bench, Chair |
| 6 | A 308 | 6 | 2 | 24 (3 Seater) | Camera, Bench |
| 7 | A 204 | 6 | 2 | 24 (3 Seater) | Projector, Camera, Bench |
| 8 | A 205 | 6 | 2 | 24 (3 Seater) | Projector, Camera, Bench |
| 9 | A 208 | 6 | 2 | 24 (3 Seater) | Projector, Camera, Bench |
| 10 | A 206 (Faculty Room) | 3 | 2 | 08 (One Seater) | Computer System in cabin |
| 11 | A 202 (faculty Room) | 3 | 2 | 10 (One Seater) | Computer System in cabin |
| 12 | A 303 (faculty Room) | 3 | 2 | 08 (One Seater) | Computer System in cabin |
| 13 | A 207 (HOD Room) | 3 | 2 | 04 chairs | Computer printer |

B. Ramasamy
20/1/24

HEAD
Dept. of Computer Science & Engg
Annamacharya Institute of
Technology & Sciences, Tirupati-517 520


PRINCIPAL

Annamacharya Institute of
Technology & Sciences
Venkatapuram
Renigunta (M), Tirupati - 517 520

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: TIRUPATI

Stock Available in respective rooms

Name of the Department : Artificial Intelligence & Data Science (AI & DS)

| Sl.No. | Room No. | Fans | Lights | Desks (Mention Seater) | Other items (if any) |
|--------|----------|------|--------|------------------------|------------------------|
| 1 | C 408 | 6 | 2 | 24 (3 Seater) | Camera, Standing Bench |

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: TIRUPATI

Stock Available in respective rooms

Name of the Department : CIC - IOT and CYBER SECURITY

| Sl.No. | Room No. | Fans | Lights | Desks (Mention Seater) | Other items (if any) |
|--------|----------|------|--------|------------------------|-------------------------------|
| 1 | C 405 | 6 | 1 | 24 (3 Seater) | Camera, Standing Bench, Chair |

B. R. S.

20/11/20
HEAD
Dept. of Computer Science & Engg
Annamacharya Institute of
Technology & Sciences, Tirupati-517 520

[Signature]
PRINCIPAL
Annamacharya Institute of
Technology & Sciences
Venkatapuram (V)
Renigunta (M), Tirupati - 517 520

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: TIRUPATI

Stock Available in respective rooms

Name of the Department : CIVIL ENGINEERING (CE) "A" Block

| Sl.No. | Room No. | Fans | Lights | Desks (Mention Seater) | Other items (if any) |
|--------|---------------------|------|--------|------------------------|-----------------------------------|
| 1 | 101 | 6 | 2 | Nil | Nil |
| 2 | 102 (Staff Room) | 3 | 2 | Faculty Tables 9 | Wire Chairs 1 Plastic Chairs 9 |
| 3 | 103 | 6 | 2 | 24 (3 Seater) | Nil |
| 4 | 104 | 6 | 2 | 24 | Projector 1 |
| 5 | 105 | 6 | 2 | 24 | Nil |
| 6 | 106 (Staff Room) | 3 | 2 | Faculty Tables :8 | Wire chairs 6 Plastic chairs 2 |
| 7 | 107 (Staff Room) | 3 | 3 | Faculty Tables 3 | Wire chairs 3 Plastic chairs 5 |
| 8 | 108 | 6 | 2 | 24 (3 Seater) | Projector 1 |
| 9 | 109 (DH) | 8 | 4 | Drawing Tables 69 | Stools 42 |
| 10 | AG 03 | 6 | 2 | 20 | Nil |


PRINCIPAL
Annamacharya Institute of
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Venkatapuram (V)
Renigunta (M), Tirupati - 517 520



HEAD
Dept. of Civil Engg.
AITS, Tirupati-517 520

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: TIRUPATI

Stock Available in respective rooms

Name of the Department : HBS

| Sl.No. | Room No. | Fans | Lights | Desks (Mention Seater) | Other items (if any) |
|--------|--------------------------|------|--------|------------------------|-----------------------|
| 1 | A 409 | 6 | 2 | 24 (3 Seater) | |
| 2 | A 411 | 6 | 2 | 24 (3 Seater) | |
| 3 | A 406 | 6 | 2 | 24 (3 Seater) | |
| 4 | A 408 | 6 | 2 | 24 (3 Seater) | |
| 5 | A 405 | 6 | 2 | 24 (3 Seater) | Projector |
| 6 | A 401 | 6 | 2 | 24 (3 Seater) | |
| 7 | A 404 | 6 | 2 | 24 (3 Seater) | Projector |
| 8 | B 405 | 5 | 2 | 24 (3 Seater) | |
| 9 | B 404 | 6 | 2 | 24 (3 Seater) | |
| 10 | B 403 | 6 | 2 | 24 (3 Seater) | |
| 11 | B 402 | 6 | 2 | 24 (3 Seater) | |
| 12 | B 401 | 5 | 2 | 24 (3 Seater) | |
| 13 | B 410 | 5 | 2 | 24 (3 Seater) | |
| 14 | B 406 | 5 | 2 | 22 (3 Seater) | |
| 15 | A 410 H& S Staff Room | 3 | 2 | 5 Tables | 3 Systems, 2 printers |
| 16 | A 407 Mathematics | 3 | 2 | 7 Tables | 1 System |
| 17 | A 402 Physics | 3 | 2 | 9 Tables | |
| 18 | A 403 Chemistry | 3 | 2 | 9 Tables | |



PRINCIPAL
 Annamacharya Institute of
 Technology & Sciences
 Venkatapuram (M)
 Renigunta (M), Tirupati - 517 520


HEAD
 Dept. of Humanities & Basic Sciences
 Annamacharya Institute of
 Technology & Sciences, Tirupati-517

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: TIRUPATI
 Stock Available in respective rooms

Name of the Department : MBA

| Sl.No. | Room No. | Fans | Lights | Desks (Mention Seater) | Other items (if any) |
|--------|-------------------------|------|--------|------------------------|--|
| 1 | Hall G C 401 | 9 | 4 | | Chairs 71, Computer 1, White writing board, Mike set 1 |
| 2 | C 408 | 6 | 2 | 24 (3 Seater) | |
| 3 | C 409 | 6 | 2 | 24 (3 Seater) | |
| 4 | C 410 | 6 | 2 | 24 (3 Seater) | |
| 5 | C 405 | 6 | 2 | 24 (3 Seater) | |
| 6 | C 404 | 6 | 2 | 22 (3 Seater) | |
| 7 | C 403 | 6 | 2 | 27 (3 Seater) | |
| 8 | C 407 (Faculty Room) | 3 | 2 | | Tables 6, S type chairs 5 Stool 1, C Chairs 5, Plastic chairs 1 |
| 9 | C 411 (Faculty Room) | 3 | 2 | | S type chairs 4, C Chairs 2, Tables 5, |
| 10 | C 406 (HOD Room) | 3 | 2 | | Tables 6, S type chairs 6 Racks 3, Biruva 2, Rotation chair 1, C |


PRINCIPAL
 Annamacharya Institute of
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 Venkatapuram (V)
 Renigunta (M), Tirupati - 517 520


HEAD
 Dept. of Management Studies
 Annamacharya Institute of
 Technology & Sciences, TIRUPATI-517

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: TIRUPATI

Stock Available in respective rooms

Name of the Department : Electrical & Electronics Engineering (EEE)

| Sl.No. | Room No. | Fans | Lights | Desks (Mention Seater) | Other items (if any) |
|--------|-------------------------------|------|--------|---|----------------------|
| 1 | BG01 Lab C | 5 | 5 | Tables Small 2, Tables big 8, S type chairs 2, Plastic Chairs 4 | One Steel Almarah |
| 2 | CG01,02 Lab 2 EM | 9 | 4 | Wooden Rock 1, Stools 30, Tables Big 3 | |
| 3 | CG03 Measurements Lab | 4 | 4 | Tables Big 3, Plastic Chairs 2, Stools 30 | One Steel Almarah |
| 4 | CG04 (CS Lab) | 4 | 2 | Big Tables 8, Computers 2, Wooden Rock 1, S Type 1 | One Steel Almarah |
| 5 | CG07,08 EM-1 Lab | 9 | 4 | Tables 1 Small, Tables 2 Big, S Type 1, Plastic Chairs 1 | |
| 6 | C303 | 6 | 2 | 24 (3 Seater) | One Projector |
| 7 | C304 | 6 | 2 | 24 (3 Seater) | One Projector |
| 8 | C305 | 6 | 2 | 24 (3 Seater) | |
| 9 | C306 (HOD Room) | 3 | 2 | S Type 1, Plastic Chairs 3, Tables 3, Wooden Rock 1 | 1 Steel Almarah |
| 10 | C307 (Staff Room) | 3 | 2 | Tables 9, S Type 5, Plastic Chairs 4 | |
| 11 | C 301, 302 (Seminar Hall) | 8 | 2 | | |

PRINCIPAL

Annamacharya Institute of
Technology & Sciences
Venkatapuram (V)
Renigunta (M), Tirupati - 517 520



HEAD

Dept. of Electrical & Electronics Engg.
Annamacharya Institute of Technology & Sciences
TIRUPATI - 517 507

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES :: TIRUPATI

Stock Available in respective rooms

Name of the Department : MECHANICAL ENGINEERING (ME)

| Sl.No. | Room No. | Fans | Lights | Desks (Mention Seater) | Other items (if any) |
|--------|----------------------------------|------|--------|---------------------------------------|---|
| 1 | A 305 | 6 | 2 | 24 (3 Seater) | Staff Table 1 |
| 2 | A 306 | 6 | 2 | 24 (3 Seater) | Nil |
| 3 | A 307 (Staff Room) | 3 | 2 | Staff Desk 7 | S type Chairs 7, Plastic Chairs 4 |
| 4 | A 309 | 6 | 2 | 24 (3 Seater) | Nil |
| 5 | A 310 (HOD Room) | 3 | 3 | Staff Table 3 | S type Chairs 3, Beeruva 3 |
| 6 | A 311 | 6 | 2 | 24 (3 Seater) | Nil |
| 7 | A 302 (Staff Room) | 3 | 2 | 24 (3 Seater) | S Type chairs 2, Plastic Chairs 5 |
| 8 | B 304 | 6 | 2 | 24 (3 Seater) | Nil |
| 9 | B 305 (Lab) | 6 | 2 | Staff Desk 01 | S Type chairs 1 Plastic Chairs 45 |
| 10 | B 307 (CAD CAM Lab) | 10 | 11 | Staff Desk 01 Tables 30 | S Type chairs 1 Plastic Chairs 55 Beeruva 1 |
| 11 | C 09, 10 (Engineering work shop) | 15 | 8 | Staff Desk 01 Tables 30 | S Type chairs 1 Plastic Chairs 3 |
| 12 | A01, 02 M.Tech Lab | 9 | 4 | Desk 3 Staff Desk 3, Tables 30 | S type Chairs 1 Plastic Chairs 2 |
| 13 | A 09 TE Lab | 5 | 2 | Staff Desk 01 Desks 3 Tables 30 | S type Chairs 1 Plastic Chairs 2 |
| 14 | B 03 MFT Lab | 5 | 2 | Staff Desk 01 Desks 3 Tables 30 | S type Chairs 1 Plastic Chairs 2 |
| 15 | FM & HM Lab 'D Block) | 12 | 12 | Staff Desk 01 Desks 4 Tables 30 | S type Chairs 1 Plastic Chairs 2 |
| 16 | H.T Lab Block D | 6 | 4 | Staff Desk 01 Desks 4 Tables 30 | Plastic chairs 2 |
| 17 | MSE Lab D Block | 6 | 4 | Staff Desk 01 Desks 4 Tables 30 | Plastic chairs 2 |
| 18 | M & M Lab "D Block | 4 | 2 | Staff Desk 01 Desks 3 Tables 30 | Beeruva 1 Plastic Chairs 2 |

PRINCIPAL

Annamacharya Institute of
Technology & Sciences
Venkatapuram (V)
Renigunta (M), Tirupati - 517 520

HEAD

DEPT. OF MECHANICAL ENGG.
AITS., TIRUPATI-517 520.



Laboratories (Department wise for UG):

a) Consolidated details of existing laboratories

| S.No | Name of the course* with Branch | Name of the Laboratory | Equipment | Cost |
|------|---------------------------------|---|--|-------------|
| 1. | B.Tech – ME | Engineering & IT workshop | Bench Vice (10 Nos),Carpenter Vice (22 Nos),House Wiring Boards (6 Nos),Arc Welding Machine (200A),Bench Grinder,Files (Smooth & Hard) (16 Nos) Anvils (3 Nos),Power Blower,Tools Box (7 Nos),Tin Cutter (13 Nos),Vernier Calipers (2 Nos),Wood Rasp File (20 Nos) | 1,07,495.00 |
| 2. | B.Tech – ME | Material Science & Engg lab | Hydraulic Semi-Automatic Mounting Press (3 Ton Capacity),Belt Surface Grinder,Double Disc Polisher,Hand Polishing Stand,Heat treatment Furnace 10000 C (6X6X12) (Muffle furnace) Quenching Machine,Specimen Cut-Off Machine (2 HP), Trinacular Metallurgical Microscope (2 Nos),Material plus software,Binocular Metallurgical Microscope (7 Nos) Binocular Metallurgical Microscope (3 Nos),Double disc polisher | 4,54,550.00 |
| 3. | B.Tech – ME | Manufacturing Technology lab | Sand Rammer (2 Nos),Permeability Meter,Universal Strength Machine (Hydraulic),Hydraulic Press,Blow Moulding Machine,Injection Moulding Machine,Spot Welding Machine,Combined Machine for ARC & TIG Welding,Electronic Balance,Sand Tester,Sand Shiver,Hardness Test,TIG Welding Equipments Plasma Welding Machine,Brazing Machine,Press Tool | 7,34,600.00 |
| 4. | B.Tech – ME | Thermal Engg Lab | Cut model 2- Stroke Single Cylinder Petrol Engine Test Rig,4-Stroke Slow Speed Diesel Engine Test Rig,2- Stroke Single Cylinder Petrol Engine(AC Generator Loading) 4-Stroke Three Cylinder Petrol Engine Test Rig,Cut Section 4-Stroke Single Cylinder Diesel Engine,2- Stage Air compression Test Rig | 5,07,000.00 |
| 5. | B.Tech – ME | Heat Transfer lab | Thermal Conductivity of Insulation Powder,Thermal Conductivity of Composite Walls,Natural Convection Apparatus,Heat Transfer Through Pin-Fin Apparatus Heat Transfer Through Forced Convection Apparatus,Emissivity Measurement Apparatus,,Parallel/Counter Flow Heat Exchanger,Stefan – Boltzmann Apparatus Thermal Conductivity of Metal Rod,Lagged Pipe Apparatus | 3,97,500.00 |
| 6. | B.Tech – ME | Fluid Mechanics & Hydraulic machinery lab | Impact of Jet on Vanes,Centrifugal Pump Test Rig(Single Stage) With 1 Hp DC Motor & Control,Centrifugal Pump Test Rig(Multi Stage) With 1 Hp DC Motor & Control Reciprocating Test Rig With DC Motor,Venturi & Orifice meter Test Rig,Pipe Friction Apparatus,Loss of Head due to Contraction Apparatus Pelton Turbine Test Rig,Francis Turbine,Orifice & Mouth Pieces Setup with all Standard | 8,10,830.00 |

| | | | | |
|-----|---------------------------------|--|---|--------------|
| | | | Accessories,Notch Apparatus with all Standard Bernoulli's Theorem Setup With all Standard Apparatus,Hydraulic Pump Test Apparatus | |
| 7. | B.Tech – ME | Machine Tools lab | Lathe Machine (5 Nos),Radial Drilling Machine,ShaperUniversal Milling Machine,SlottingMachine,Grinding Machine,Surface Grinding Machine Advanced Surface Grinding Machine,Planning Machine | 14,19,405.00 |
| 8. | B.Tech – ME M.Tech – PE & ED | CAD/CAM lab Design Simulation lab Manufacturing simulation lab | CNC (PC Controlled) Including Tooling, Milling and Lathe machines, Package,Computers (55 Nos),CATIA V5 Discover 10 User Pack,PROE | 26,07,228.00 |
| 9. | B.Tech – ME | Measurement lab | Calibration of Pressure Gauge,Calibration of Transducer For Temperature Measurement,Study And Calibration of LVDT Transducer For Displacement Measurement Calibration of Strain Gauge Force Measurement,Calibration of Thermocouple For Temperature Measurement,Calibration of Capacitive Transducer For Angular Displacement Study And Calibration of Photo And Magnetic Speed Pickups For The Measurement,Calibration of Resistance Temperature Detector For Temperature Measurement Study And Use of Seismic Pickup For The Measurement of Vibration of Engine,Study and Calibration of Mclead Gauge for Low Pressure Rotometer Range:0.5-1lpm-Float 304SS PVC Conical-Scale Length;85mm, 125mm | 2,55,200.00 |
| 10. | B.Tech – ME | Metrology lab | Tool Maker Microscope,Vernier Caliper (2 Nos),Vernier Height Gauge,Bevel Protractor (2 Nos),Sine Bar (2 Nos),Gear Tooth Vernier CaliperDial Bore Gauge(2 Nos)Sprit Level (2 Nos),Slip Gauges Set,Outside Micrometer 0-25,Out Side Micrometer 25-50,Jaw -Type Inside Micrometer 0-25Jaw -Type Inside Micrometer 25-50,Granite Surface Plate,Floating Carriage Micrometer,Tally Surf | 3,38,249.00 |

Laboratories (Department wise for PG):

a) Consolidated details of existing laboratories

| S.No | Name of the course* with Branch | Name of the Laboratory | Equipment | Quantity | Cost |
|------|---------------------------------|------------------------|--|----------|---------|
| 1. | M.Tech | Advance Simulation Lab | Laptops, Server with high-end capacity | 36 | 3800000 |

HoD

Principal