

Department: Electrical and Electronics Engineering

Name of the Laboratory: Control Systems Lab

| S.No. | Name of the Equipment | Total Stock |
|--------------|---|--------------------|
| 1 | Temperature Controller System | 2 |
| 2 | Stepper Motor | 2 |
| 3 | Synchro Transmitter Receiver Trainer, | 2 |
| 4 | AC Servo Speed-Torque Characteristics Trainer | 1 |
| 5 | AC Servo Speed-Torque Characteristics Trainer | 2 |
| 6 | Lead-Lag Compensation Design | 2 |
| 7 | DC Servo Motor | 1 |
| | DC Servo Motor | 1 |
| 8 | PID Controller | 1 |
| | PID Controller | 1 |
| 9 | DC Position Control System | 2 |
| 10 | Linear System Simulator | 1 |
| | Linear System Simulator | 1 |
| 11 | Magnetic Amplifier | 2 |
| 12 | Regulated DC Power Supplies (0-30v, 5Amp Dual Channel) | 4 |
| 13 | AC Servo Controlled Voltage Stabilizer | 1 |
| 14 | Programmable Logic Controller | 1 |
| 15 | 20 MHz Dual Trace Oscilloscopes | 5 |
| 16 | Digital Multimeters | 10 |
| 17 | Tachometers (Digital) | 4 |
| | Contact Type | |
| 18 | Function Generators | 2 |
| | Model ST 4060 | |
| 19 | Programmable Logic Controller Trainer with Demonstration Kit | 1 |
| | 2 Analog Inputs | |
| | 1 Analog Output | |
| | 13 Digital Inputs | |
| | 9 Digital Outputs | |
| 20 | Microcontroller and MATLAB based servo and stepper motor drive | 1 |
| 21 | Lead-Lag Compensation Modules | 1 |
| | Make: Powertronics | |
| 22 | DC Servo Motor Unit | 1 |
| | Make: Powertronics | |
| 23 | PMDC Motor With feedback | 1 |
| | Make: Powertronics | |
| 24 | PID Controller | 1 |
| | Make: Powertronics | |
| 25 | Linear System Simulator | 1 |
| | (Time response of second order system) Make: Powertronics | |
| 26 | CRO 30MHz Dual Trace | 6 |
| | Make: Scientech | |
| 27 | Digital Storage Oscilloscopes | 4 |
| | 50MHz, Make: Scientech | |
| 28 | Digital Multimeters | 10 |
| | Make: Vartech | |
| 29 | Characteristics of Synchronous | 1 |
| | Make: Powertronics | |
| 30 | i. Transfer Characteristics of DC Generator, DC Motor Controller | 1 |
| | ii. DC Motor - DC Generator set 0.5HP, 220V | 1 |
| | iii. Digital Tachometer Make: Powertronics | 1 |
| 31 | Temperature Controller Using PID analog | 1 |
| | Make: Powertronics | |
| 32 | i. Transfer Function of DC motor with DC motor controller Make: Powertronics | 1 |
| | ii. DC Motor with loading arrangement 0.5HP, 220V | 1 |

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| | Digital Tachometer Make: Systems | 1 |
| 33 | Characteristics of Magnetic Amplifier Make: Powertronics | 1 |
| 34 | Effect Feedback on DC Servomotor with loading arrangement Make: Powertronics | 1 |
| 35 | Time Response of Second order system Make: Powertronics | 1 |
| 36 | Effect of P,PD, PI, PID Controller on a Second Order System Make: Powertronics | 1 |
| 37 | Digital Storage Oscilloscope: 30Mhz, 2 channel, Digital Storage Oscilloscopes Compact size & LCD Colour Display - 8', realtime Sampling rate 250ms/s, Memory Depth: 10kpts, External Storage through USB, onscreen FFT & Math Function Make : OWON SDS 5032E | 3 |
| 38 | Digital Multimeter make: Vartech | 2 |
| 39 | Stop Watch make - Racer | 2 |
| 40 | Single Phase auto Transformer Make: AE | 2 |
| 41 | Temperature Controller System (Owen Type) Make: Powertronics | 1 |

Name of the Laboratory: Networks Lab

| S.No. | Name of the Equipment | Total Stock |
|-------|--|-------------|
| 1 | C.R.O. 20Mhz | 6 |
| 2 | Bread Board Trainers | 5 |
| 3 | 5KVA Servo Controlled Stabilizer | 5 |
| 4 | D.C. Regulated Power Sypply | 10 |
| 5 | Capacitors 10 mF/ 230V | 10 |
| 6 | Pulse Transformers | 20 |
| 7 | Micro Head Phone | 1 |
| 8 | Soldering Iron 25W | 1 |
| 9 | D.R.B. Boxes | 4 |
| 10 | D.C.B.Boxes | 4 |
| 11 | D.I.B. Boxes | 4 |
| 12 | 2KVA 1-phase Transformer | 2 |
| 13 | Centre Tapped Transformer 24-0-24, 5A | 2 |
| 14 | M.I.Volt Meters 0/150/300V | 6 |
| 15 | M.C.Volt Meters 0/150/300V | 3 |
| 16 | M.C.Ammeters 0-5/10A | 3 |
| 17 | Rheostats 300/1-7A | 2 |
| 18 | Rheostats 290/1-7A | 4 |
| 19 | Rheostats 100/2-8A | 7 |
| 20 | Rheostats 55/2.8A | 4 |
| 21 | Rheostats 230/1.7A | 4 |
| 22 | Rheostats 6/18A | 2 |
| 23 | M I Ammeters (0-1/2A) | 11 |
| 24 | M I Ammeters (0-5/10A) | 2 |
| 25 | M I Voltmeters (0 - 150/300V) | 8 |

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| 26 | MC Voltmeters (0-20V) | 1 |
| 27 | MC Voltmeters (0 - 50V) | 2 |
| 28 | Ammeter 0 - 20 mA | 1 |
| 29 | Ammeter 0 - 100 mA | 1 |
| 30 | Galvano Meters 0 - 30V | 5 |
| 31 | 1 ϕ Variac 240V/0-270V | 10 |
| 32 | Isolation Transformers 3 ϕ , 3KVA | 1 |
| 33 | Rheostats 55 Ω /2.8A | 2 |
| 34 | Rheostats 200 Ω /2.8A | 3 |
| 35 | Rheostats 300 Ω /1.7A | 7 |
| 36 | 3-phase Inductive Load Range 0-2A Make: SS Lab | 2 |
| 37 | LPF Wattmeters Range: 1 - 2 Amp Make : MECO | 4 |
| 38 | UPF Meters Range: 2.5/5Amp Make : MECO | 4 |
| 39 | Rheostats 100 ohms/2.8A Make: STEAD | 6 |
| 40 | Rheostats 200 ohms/2.8A Make: STEAD | 4 |
| 41 | Rheostats 55 ohms/2.8A Make: STEAD | 4 |
| 42 | Rheostats 6 ohms/18A Make: STEAD | 4 |
| 43 | Voltmeters MI Range: 75/150/300V Make: MECO | 3 |
| 44 | Ammeters MI Range : 1/2 Amps Make: MECO | 4 |
| 45 | Storage Oscilloscope (Digital) Make : OWON | 2 |
| 46 | Signal Generators (Digital) | 3 |
| 47 | Decade Resistance Box Make: SS Lab | 4 |
| 48 | Decade Inductance Box Make: SS Lab | 4 |
| 49 | Decade Capacitance Box Make : SS Lab | 4 |
| 50 | Portable Meters 500 Micro A Make: MECO | 8 |
| 51 | Portable Meters 100 Micro A Make: MECO | 8 |
| 52 | Portable Voltmeters Rating : 0 - 1V Make: MECO | 4 |
| 53 | Multimeters Digital Make: VERTECH | 3 |
| 54 | AC Voltmeters (75/150/300) MI Make: MECO | 3 |
| 55 | DC Voltmeters (0-75/150/300V) MC Make: MECO | 3 |

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| 56 | AC Ammeters (0-1A/2A) MI Make: MECO | 3 |
| 57 | DC Ammeters (0-1A/2A) MC Make: MECO | 3 |
| 58 | Digital Multimeters Make: Vartech | 4 |
| 59 | Signal Generators Make: SS Lab | 2 |
| 60 | Digital Storage Oscilloscopes 50Mhz | 2 |

Name of the Laboratory: Electrical Machines Lab - I

| S.No. | Name of the Equipment | Total Stock |
|-------|--|-------------|
| 1 | DC Shunt Motor 5HP Base Plate & Mechanical Loading | 2 |
| 2 | 5HP DC Shunt Motor - Shunt Generator Set Base Plate & coupling | 1 |
| 3 | DC Compound Motor - Compound Generator Set Base Plate & Coupling | 1 |
| 4 | Induction Motor Squirrel Cage Base Plate & Mechanical Loading | 1 |
| 5 | DC Rectifier, 100A, 220V, with 3-phase 25KVA Servo Controlled Stabilizer | 1 |
| 6 | DC Shunt Motor - Shunt Generator Set 5HP MS Base Plate Flexible Coupling 3 Point Starter Field Regulator | 1 set |
| 7 | DC Shunt Motor & Series Generator Base Plate & Coupling | 1 set |
| | Base Plate & Coupling | 1 |
| 8 | DC Shunt Motor (5HP) | 2 |
| | Base Plate & Coupling | 2 |
| | Loading Arrangement | 2 |
| 9 | DC Compound Motor (5HP) | 1 |
| | MS Base Plate | 1 |
| | Loading Arrangement | 1 |
| 10 | DC Shunt Motor & Alternator (Non Salient) with base plate & Coupling | 1 |

Name of the Laboratory: Electrical Machines Lab - II

| S.No. | Name of the Equipment | Total Stock |
|-------|--|-------------|
| 1 | DC shunt Motor Alternator With Base Plate & Coupling | 1 |
| 2 | Transformer for Scot Connection 2KVA, 240V, Tapping at 50% 86.6% on HV Side | 2 |
| 3 | Transformer for Scot Connection 2KVA, 240V, Tapping at 50% 86.6% on HV Side | 2 |
| 4 | DC Shunt Motor & Alternator (Salient Pole) (Synchronous) | 1 |
| 5 | Induction Motor Single Phase | 1 |
| 6 | Induction Motor, 3-phase Slip Ring Base Plate & Mechanical Coupling | 1 |
| 7 | Dell Vostro 3800 Desktop Intel Core i3@4th Generation HIT 1 Chipset motherboard 4GB DDR 3 RAM/ 500 SATA HDD 2GB Graphic Card/ DVD Writer 18.5" ftt monitor/ Keyboard Optimal Mouse/ Windows 8 License Software | 5 |
| 8 | 5HP DC Shunt motor coupled to DC shunt Generator | 1 |
| 9 | 5HP DC Series Identical Machine | 1 |

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| 10 | 5HP DC shunt Motor with BDA | 1 |
| 11 | 7.5HP AC sq.cage Induction Motor coupled to 5KVA alternator | 1 |
| 12 | Digital RPM Indicator with Proximity Sensor | 4 |
| 13 | DC Rectifier I/P: 3 phase/415V/50Hz (AC) O/P : 230V DC - 50 Amps | 1 |
| 14 | 3-phase Variac (Auto Transformer) 15 Amps Make: SS Lab | 4 |
| 15 | Winding Machine (Motor Type) | 1 |
| 16 | 1-Phase Variac - 15 Amps Auto Transformer | 3 |
| 17 | Transformers 2KVA, 330/400V | 2 |
| 18 | DC Shunt motor - Generator set 3HP, 220 V, 1500rpm Make: BENN | 1 |
| 19 | Linear Variable Inductive Load 3-Phase Star Connected 10A | 1 |

Name of the Laboratory: Electrical Measurements Lab

| S.No. | Name of the Equipment | Total Stock |
|-------|--|-------------|
| 1 | LVDT Techno make | 2 |
| 2 | Conductor Clamp | 1 |
| 3 | Resistance Coil 0.05 Ohms | 1 |
| 4 | Resistance Coil 0.1 Ohms | 1 |
| 5 | Plug Key One Way | 5 |
| 6 | 1 Phase Energy Meter | 2 |
| 7 | 3 Phase Energy Meter | 1 |
| 8 | Portable Wheatstone Bridge | 1 |
| 9 | Dial Type Resistance box 4 dials 0.1,1,10&100 | 2 |
| 10 | Industrial Kelvin Double Bridge | 2 |
| 11 | Light Spot Galvanometer | 1 |
| 12 | Crompton Potentiometer | 1 |
| 13 | Standard Cell 1.0186v | 1 |
| 14 | Volt Ratio Box | 1 |
| 15 | Super Sensitive Galvanometer | 1 |
| 16 | DC Current Shunt 15A/0.1 Ohms | 1 |
| 17 | DC Power Supply (i) 2v/250mA (ii) 30v/2A | 1 1 |
| 18 | Maxwell's Bridge | 1 |
| 19 | Decade Inductance Boxes 0.01.0.1,1 H 3 Dials | 2 |
| 20 | Anderson's Bridge | 1 |
| 21 | De-Sauty's Bridge | 1 |
| 22 | Schering's Bridge | 2 |
| 23 | Decade Condenser Boxes 0.01,0.1& 1 micro farads (3 dials) | 2 |
| 24 | Phase Shifting T/F with stepless control 600vA Sl.No. SA/ITTA/22k413PSD | 1 |
| 25 | Precision CT 5-50/5 Amp | 1 |
| 26 | Commercial CTs 5/5, 10/5, 15/5, 20/5 each 1 total 4 | 4 |
| 27 | UPF CT Burden Box 2.5VA to 30 VA/5Amp | 1 |
| 28 | AC Current injection Unit 0-50A, 500VA | 1 |
| 29 | Dielectric Oil Testing Kit 0-80 kV | 1 |
| 30 | Single phase Auto transformer (Dimmer Stat) AE Make | 1 |
| 31 | Three phase auto transformer (Dimmer Stat) AE Make | 1 |
| 32 | MC DC ammeters - 0-1/2 A | 4 |
| 33 | MC DC ammeters - 0-10/20 A | 4 |
| 34 | MI AC Ammeters - 0-1/2A | 4 |
| 35 | MI AC Ammeters - 0-5/10A | 4 |

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| 36 | MC DC Voltmeters - 0-150/300V | 4 |
| 37 | MC DC Voltmeters - 0-30V | 4 |
| 38 | MI AC Voltmeters - 0-300/600V | 4 |
| 39 | LPF Wattmeters 5/10A, 150/300/600V, 0-150W | 6 |
| | 25/5A, 150/300/600V, 0-75W | 2 |
| 40 | UPF watt meters 5/10A, 75/150/300V, 0-400W | 2 |
| | Power Factor Meter | 1 |
| 41 | Analog Frequency Meters 110/230/440V, 45-50-55Hz | 3 |
| 42 | Phase Sequence Inductors 50 - 500V | 4 |
| 43 | Directional Core Current Relay Study Trainer Electromechanical Type | 1 |
| 44 | DC Crompton Potentio Meter | 1 |
| 45 | Anderson Bridge | 1 |
| 46 | Interface Board | 1 |
| 47 | Signal Generator | 2 |
| 48 | Frequency Mater Make: NG | 2 |
| 49 | Head Phones (AC Bridges) Make: NG | 4 |
| 50 | 1-phase Energy Meter Digital Make: NG | 2 |
| 51 | Stop Watches Digital Make: NG | 3 |
| 52 | DC Regulated Power Supply 0 - 10V/5A (Make: SS Lab) | 2 |
| 53 | Galvano Meters Make: MECO | 3 |
| 54 | Single Phase energy Meter Range (0 - 10A) | 2 |
| 55 | Anderson Bridge Make: Oxford | 1 |
| 56 | Schering Bridge Make: Oxford | 1 |
| 57 | Power Factor Meter (Analog) Make: Meco | 1 |
| 58 | Digital Multi Meters make: Vartech | 4 |
| 59 | Clamp Meter (Tong Tester) Range: 200A to 1000A (Make: Vartech) | 1 |
| 60 | Digital Voltmeter Range: 0-300MV (Make: EIC) | 1 |
| 61 | Digital Voltmeter Range: 0-600V (Make: EIC) | 1 |
| 62 | Digital Ammeter Range 0 - 20A (Make : EIC) | 1 |
| 63 | Digital Ammeter Range 0 - 300A (Make : EIC) | 1 |
| 64 | Digital Watt Meter Range: 0-600 A (Make: EIC) | 1 |

Name of the Laboratory: Electrical Testing Lab

| S.No. | Name of the Equipment | Total Stock |
|-------|---|-------------|
| 1 | Megger : 500V, 100MΩ | 1 |
| 2 | Megger : 1000V, 500MΩ | 1 |
| 3 | Tong Tester : 1000A | 1 |
| 4 | Earth Tester 0-10-100 1000 ohms with testing kit | |
| | (a). 3 - Terminal | 1 |

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| | (b). 4 - Terminal | 1 |
| 5 | Digital Clamp Meter AC/DC 600 Amps | 1 |
| 6 | Digital Frequency Meter 0-1 GHz | 1 |
| 7 | Flux meter | 1 |
| 8 | Lux Meter | 1 |
| 9 | Tacho Meter | 1 |
| 10 | Moving Coil DC Panel Meters | |
| | (i). 0 - 10 mA | 6 |
| | (ii). 0 - 100 mA | 6 |
| | (iii). 0 - 50 μ A | 6 |
| | (iv). 0 - 500 μ A | 10 |
| 11 | Model: MR 65 size: 80x80mm Square Accuracy : 2.5% | |
| | (i). 0 - 10mA | 4 |
| | (ii). 0 - 100 mA | 4 |
| | (iii). 0 - 50 μ A | 4 |
| 12 | Moving Coil DC Meters | |
| | (i). 2 - 0 - 2 VA DC | 2 |
| | (ii). 10 - 0 - 10A DC | 2 |
| | (iii). 20 - 0 - 20A DC | 2 |
| 13 | Moving Iron Meters | |
| | (i). 0 - 30V AC | 2 |
| | (ii). 0 - 10V AC | 2 |
| 14 | Wire Wound Rheostats | |
| | (i). 20Amp 20 Ω | 1 |
| | (ii). 18Amp 6 Ω | 6 |
| | (iii). 2.8Amps 200 Ω | 4 |
| | (iv). 1.7Amps 200 Ω | 4 |
| 15 | Portable Meters | |
| | (i). MI 0 - 500mA | 4 |
| | (ii). MI 0 - 100 mA | 4 |
| | (iii). MI 0 - 02A | 4 |
| 16 | Tacho Generator | 1 |
| 17 | DC Crompton Potentiometer | 1 |

Name of the Laboratory: MODROBS Equipment

| S.No. | Name of the Equipment | Total Stock |
|-------|--|-------------|
| 1 | Custom Bundle NI Lab VIEW License Software | 1 |
| | CST @ 5.50% | |
| 2 | Power Analyser | 1 |
| | Measurement Lead Set | 3 |
| | For terminal adopter set | 3 |
| | Alligator Clip | 3 |
| | CST @ 14.50% | |
| 3 (i) | DC motor Control Using 3-phase Half and Fully Controlled Bridge Converter | 1 |
| (ii) | Separately Excited DC Motor Control Using Single Phase SCR Based Dual Converter | 1 |
| (iii) | Rotor Control of Slip Ring Induction Motor | 1 |
| 4(i) | V/F Control of 3-phase Induction Motor | 1 |
| (ii) | DSP based BLDC Motor | 1 |
| 5 | Dell Vostro 3800 Desktop Intel Core i3@4th Generation HIT 1 Chipset motherboard 4GB DDR 3 RAM/ 500 SATA HDD 2GB Graphic Card/ DVD Writer 18.5" tft monitor/ Keyboard Optimal Mouse/ Windows 8 License Software | 5 |

Name of the Laboratory: Power Electronics Lab

| S.No. | Name of the Equipment | Total Stock |
|-------|-----------------------|-------------|
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|----|---|----|
| 1 | Forced Commutation Circuit | 2 |
| 2 | DC Johns Chopper | 2 |
| 3 | Single Phase Parallel Inverter | 2 |
| 4 | Single Phase Series Inverter | 2 |
| 5 | Single Phase Dual Converter | 2 |
| 6 | Universal Power Electronic Trainer | 2 |
| 7 | Study of Characteristics of SCR, TRIAC, DIAC, MOSFET & IGBT with built in Two variable power supplies | 2 |
| 8 | SCR firing circuit trainer with built in suitable power supplies | 2 |
| 9 | Single phase AC Voltage controllers | 2 |
| 10 | Single phase Cyclo Converter | 2 |
| 11 | Multimeters | 4 |
| 12 | Single phase fully controlled bridge converter R & RL loads (Thyset) | 2 |
| 13 | TCA 785 (ICs) | 10 |
| 14 | Embedded Engineers Development Tool Interface Board | 2 |
| 15 | Single Phase Cyclo Converter | 1 |
| 16 | Three Phase Half & Fully Controlled Bridge Converter | 2 |
| 17 | Single phase half & Fully controlled Converter | 1 |
| 18 | PMDC Motor (1Kw) | 1 |
| 19 | PMDC Motor (1/2 Kw) | 1 |
| 20 | (a)Knife Switches TPST 32A | 4 |
| | (b)Knife Switches TPDT 32A | 4 |
| 21 | Dual Trace Oscilloscopes | 5 |
| 22 | SCR, IGBT, MOSFET Characteristic Trainer | 1 |
| 23 | Relays 24V-230V | 10 |
| 24 | SCR, IGBT, MOSFET Characteristic Trainer | 1 |
| 25 | Single Phase Half & Fully controlled Converter | 1 |
| 26 | Single phase Cyclo Converter | 1 |
| 27 | PMDC Motor 1KW | 3 |
| 28 | PMDC Motor 1/2 KW | 3 |
| 29 | Electro Mechanical Type Directional Core Current relay study trainer | 1 |
| 30 | IGBT Module 20A 600V | 1 |
| 31 | DM 183032 | 1 |
| 32 | Voltage Source inverter | 1 |
| 33 | Digital Multi Meters | 3 |
| 34 | Digital Multi Meters | 2 |
| 35 | Mid Point Transformer 1KVA, 230/100V, 60V, 30V | 2 |
| 36 | Ammeter 0 - 1 mA DC | 6 |
| 37 | Volt Meter 0 - 30 MC | 2 |
| 38 | Ammeter 0 - 10 mA | 6 |
| | 0 - 100 mA | 6 |
| 39 | AC Voltage Converter | 2 |
| 40 | a)Single phase Cyclo Converter power circuit | 2 |
| | b) Single phase Cyclo Converter firing circuit | 2 |
| 41 | Single Phase parallel bridge Inverter with firing circuit | 2 |
| 42 | Single Phase Series Inverter | 2 |
| 43 | Single Phase Parallel Inverter | 2 |

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|----|---|---|
| 44 | a) Single Phase Dual Converter power circuit | 2 |
| | b) Single Phase Dual Converter firing circuit with LCD display | 2 |
| 45 | Four Quadrant chopper Drive | 2 |
| 46 | Static Characteristics of SCR, MOSFET & IGBT | 2 |
| 47 | Forced Commutation Circuit | 2 |
| 48 | a) Rheostat 50ohms/2A | 2 |
| | b) Inductor 150mH/2A | 2 |
| 49 | a). Center Tapped Isolation Transformer | 2 |
| | b) SCRs 16A/600V | 2 |
| | c) Rheostat 150ohms/5A | 2 |
| | d) Inductor 150mH/5A | 2 |
| 50 | a). Rheostat 50 ohms/2A | 2 |
| | b). Inductor 0-50-100-250mH/2A | 2 |
| | c) Regulated Power Supply 0-30V/2A | 2 |
| 51 | a). Rheostats 150 ohms/5A | 2 |
| | b). Inductor 150mH/5A | 2 |
| | c). Isolation Transformer 1KVA | 2 |
| | d). Circulatory Current Limiting Inductor with SCR and Diode | 2 |
| 52 | a). Motor with Mechanical Load 24V/2A | 2 |
| | b). Digital Tachometer (Non Contact) | 2 |
| 53 | Gate Firing Circuits for SCR | 2 |
| | (a). R & RC Triggering of SCR | |
| | (b). Basic DC firing Circuit | |
| | ©. UJT Triggering of SCR (Make: PRAGNA) | |
| 54 | Single phase PWM Inverter (Single phase PWM inverters with 1-phase Induction motor control) Single phase IGBT based bridge inverter module 220V/2A This trainer consists of 1phase IGBT based PWM inverter with V/f control Make: PRAGNA Accessories: 1. Single phase induction motor 2. Digital Tachometer | 2 |
| | Three Phase PWM Inverter (three phase PWM Inverters, three phase induction motor control): Three phase IGBT based PWM inverter module 220V/2A Make: PRAGNA Accessories: 1. 3-phase Induction Motor 2. Digital Tachometer | |
| 56 | DC - DC Converter MOSFET based backboost converter: 30V 2A DC Chopper control circuit with variable duty cycle and variable frequency Make: PRAGNA | 2 |
| | Accessories: DC Regulated Power Supply | |
| 57 | 1-phase 1KVA Isolation transformer with tappings Primary 0 - 230V Secondary 0 - 30V, 60V, 115, 230V Make : SS Lab | 3 |
| | Single phase Induction Motor | |
| 59 | Digital Storage Oscilloscopes: 30Mhz, 2 channel, digital Storage Oscilloscope compact size & LCD collar display, Realtime sampling rate 250 ms/s. Memory depth 10 kphs. External Storage through USB, on screen TFT & Main Function. Make: OWON | 3 |
| | Digital Multimeters Make: VARTECH | |
| 61 | Buck - Boost Converter ake: Pragna | 2 |
| 62 | Buck Converter | 1 |
| 63 | Boost Converter | 1 |
| 64 | Digital Multimeters | 6 |
| | WACO 19TB | |

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| 65 | Digital Volt Meter AC - 0-300V EIC | 1 |
| 66 | Digital Volt Meter 0-100 MV Make: EIC | 1 |
| 67 | Digital Ammeter AC: 0 - 20A Make: EIC | 1 |
| 68 | Digital Ammeter AC: 0 - 300 mA Make: EIC | 1 |
| 69 | Digital Watt Meter AC - UPF 0-600/10A Make: EIC | 1 |

Name of the Laboratory: Power Systems Lab

| S.No. | Name of the Equipment | Total Stock |
|-------|---|-------------|
| 1 | AC Transmission line analyser (UPST.101) | 1 |
| 2 | Measurement of Sequence Impedance Reactive of Alternator (VPT 86) | 1 |
| 3 | Three phase Fault Analysis Study Trainer (VPL - 87) | 1 |
| 4 | 100KV,500mA cascaded Transformer with control crop | 1 |
| 5 | P-001380 - 100mm Sphere Gap Assembly with Micrometer scale and water resistor | 1 |
| 6 | 100KV Capacitance Divider (1000:1 Ratio) | 1 |
| 7 | 11KV pin Insulator | 1 |
| 8 | 11KV Disc Insulator String | 1 |
| 9 | 3-phase, 3KVA, 100/200V, Delta Star Transformer | 1 |
| 10 | Strobo Scope | 1 |
| 11 | Dielectric Oil Testing Kit | 1 |

SIMULATION OF ELECTRICAL SYSTEMS LAB

| S.No. | Name of the Equipment | Total Stock |
|--------|---|--------------|
| 1 | HCL Single Info Outlet Cat 5e with SMB | 1 |
| 2 | 04/S Lab / ORD / EEE 2004 23/06/2004 HCL Enhanced Cat 5 Cable | 1 |
| 3 | 24 port switch D-Link | 1 |
| 4 | I/O Box Normal | 39 |
| 5 | 24 port Jack Panels | 1 |
| 6 | Cat 5 Cable 305 mts | 2 |
| 7 | Patch Card 3 feet | 40 |
| 8 | Patch Card 7 feet | 40 |
| 9 | IITR AC Packaged Unit | 1 |
| | Ducting 24 G | As per Offer |
| | Acoustic Ins | As per Offer |
| | Supply grills | As per Offer |
| | Return grills | As per Offer |
| | 5/8" CU Line | As per Offer |
| | 7/8" CU Line | As per Offer |
| | 2C x 1.5 Sq.mm | As per Offer |
| 8 SWGI | As per Offer | |
| 10 | MATLAB SOFTWARE SymLink , Sym Power Systems Control Systems (10 Usrs) for both windows and Linux | 10 Users |
| 11 | DX 2280 HP Make Desktop, Dual Core 512 MB RAM, 80GBHDD, TFT Monitor | 1 |

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| 12 | LAPTOP Intel Dual Core T2300 P4 1.66GHz 512MB RAM, 80GB HDD TFT Monitor with touch pad DVD ROM, 56 K Model | 1 |
| 13 | 24 Port Switch | 1 |
| 14 | 8 Port Switch | 2 |
| 15 | Lan Tester | 1 |
| 16 | Crimping Tool | 1 |
| 17 | RJ 145 Connectors | 1 box |
| 18 | DVD Writer | 10 |
| 19 | Z104 512 MB DDR - 1 RAM | 2 |
| 20 | Laser jet Printer 1160 Model (HP Make) | 1 |
| 21 | CD Writers Combo Drives (Sony Make) | 4 |
| 22 | External DVD Writer | 1 |
| 23 | External Hard Disk Tech.Com Make | 1 |
| 24 | Intex Systems Zebranic Make | 6 |
| 25 | 8 Port D-Link Switch | 1 |
| 26 | Canon I.R. 3300 photo copier machine (Xerox Machine) | 1 |
| 27 | HP LaserJet 1020 Make: HP | 1 |
| 28 | NI Lab VIEW Software | 200 User |
| 29 | PSCAD X4 Academic Network License (MUL) | 25 User |
| 30 | Aser 16' LED Monitor with Logitech Key board and mouse with N Computing L-300 device | 40 |
| 31 | HP Server | 1 |
| 32 | DLINK 8 Port Switch | 1 |
| 33 | DLINK 24 Port Switch DES 1024D | 1 |