

EEE DEPARTMENT

Equipment List / Details:

Electronics Lab:

Sl. No	Name of the Equipment	Qty	Value
01	Decade Capacitance Box	17	59,288.00
02	Decade Inductance Box	17	68,413.00
03	Decade Resistance Box ADD-DRB07	27	69,175.00
04	IC Tester	01	23,405.00
05	LCR Meter	01	15,566.00
06	Ammeter (Analog) (0-50-100 μ A)	50	4,48,875.00
	Ammeter (Analog) (0-100-200 μ A)	50	
	Ammeter (Analog) (0-2.5-5mA)	50	
	Ammeter (Analog) (0-5-10mA)	50	
	Ammeter (Analog) (0-30-60mA)	50	
	Ammeter (Analog) 0-50-100mA	50	
	Voltmeter (Analog) (0-1V)	50	
07	Function Generator	26	2,56,379.00
08	Function Generator With RPS	21	2,66,665.00
09	Regulated Power Supply	55	6,53,766.00
10	DSO	36	13,74,460.00
11	CRO	21	3,75,117.00
12	8051 Micro Controller Boards	40	1,58,745.00
13	Interface Cards for 8051 Micro Controller Boards		64,890.00
	1. 8-Bit ADC-DAC	10	
	2. Stepper Motor Controller	10	
	3. Lift Control	02	
14	8085 Micro Processor Boards	51	2,15,133.00
15	Interface Cards for 8051 Micro Controller Boards		64575.00
	1. 8-Bit ADC-DAC	10	
	2. Stepper Motor Controller	10	
	3. Lift Control	10	
16	DC Motor Interface Board	12	70,200.00
	8 Bit ADC and 8bit DAC Interface	10	
	Stepper Motor Interface Board	10	
	Digital I/O Interface Board	10	
	Traffic light Controller	10	
17	FPGA BOARD	30	2,70,000.00
18	DC Ammeter (0-1A)	04	35,280.00
	AC Ammeter (0-1A)	06	
	AC Ammeter (0-3A)	07	
	AC Ammeter (0-5A)	03	
	AC Ammeter (0-10A)	02	
	AC Ammeter (0-100A)	02	

19	Single Phase 500VA Isolation Transformer	30	1,86,726.00
20	Single Phase Auto Transformer 6A/230V	06	22,800.00
21	Variable Rheostat 50Ω/5A (Single Tube) Variable Rheostat 200Ω/3A (Single Tube) Variable Rheostat 230Ω/1.7A (Single Tube) Variable Rheostat 750Ω/1.5A (Double Tube)	08 04 11 05	27,200.00
22	Digital Multimeter	34	1,95,658.00

Power Electronics UG:

Sl. No	Name of the Equipment	Qty	Value
01	Digital Regulator Power Supply	09	89,455.00
02	Programmable DC Power Supply	02	72,345.00
03	Power supply With Digital Read Out	04	66,394.00
04	Mixed Signal DSOs	02	10,80,000.00
05	DSO (4 CH)	02	6,85,315.00
06	DSO 2 CH	26	1,181,397.00
07	Current Probes	11	5,05,866.00
08	Rheostats	30	90,858.00
09	Digital Multimeter	20	154240.00
10	3 MHZ Function Generator	03	25,169.00
11	Function Generator with RPS	03	31,920.00
12	Isolation Transformer	14	32,602.00
13	Clamp Meter	01	1,20,000.00
14	Single Phase AC Induction Motor	08	55920.00
15	DC Shunt Motor	07	76930.00
16	Gating Circuits for Power IGBT's	08	3,10,380.00
17	Soldering Station	05	66150.00
18	3/4,4/4 On Grid Solar Inverter in build with MPPT Based DC-DC Converter	01	1,47,877.00
19	2 KW Off Grid Solar Inverter in build with MPPT Based DC-DC Converter	01	68877.00
20	MSP 430F 1611 Development Board	10	94500.00
21	10KW H-Bridge Invertor With built in DC-Dc convertor	01	5,30,250.00
22	Buck Boost Converter	02	98,700.00
23	Three phase Voltage Controller	01	50,000.00
24	3 Phase Fully Controlled Converter	01	25,000.00
25	3 Phase IGBT Based PWM Inverter	04	2,18,400.00

26	COK Converter	02	14,000.00
27	Boost Converter	02	14,000.00
28	SEPIC Converter	02	14,000.00
29	Forward Converter	02	14,000.00
30	Boost Converter	02	98,700.00
31	Buck Converter	02	98,700.00
32	Tachometer (non-contact)	02	9,000.00
33	1 Phase AC Voltage Controller	02	52,500.00
34	Mosfet buck/Boost/Buck Boost Converter	01	25,000.00
35	1 Phase SCR Half controlled Converter	01	8,000.00
36	1 Phase Cyclo Converter	01	12,000.00
37	AC Voltmeter	03	4,950.00
38	DC Voltmeter	03	4,950.00
39	MSP-EXP430 F5438 Board & DE bug him programming	01	23,885.00
40	Closed loop Control FHP	01	18,500.00

Power Electronics PG:

Sl. No	Name of the Equipment	Qty	Value
01	Mixed Storage Oscilloscope 150MHz	02	2,78,250.00
02	DSO	06	3,63,204.00
03	DC Power Supply (0-15V)	05	32,500.00
04	Driver Circuits + Adapter Board	06	19,800.00
05	DSO(4-Channel)	05	4,99,784.00
06	LCR Meters	02	49,440.00
07	Micro Controller Kit	20	1,65,900.00
08	Digital Multimeter	23	2,73000.00
09	Soldering Station	20	1,36,237.00
10	Solderless Breadboard	20	14,322.00
11	BLDC Motor	01	99,918.00
12	PMSM Motor Setup	01	1,05,000.00
13	FPAG SOC Development Board	05	2,47,070.00
14	Dual IGBT 5A (Voltage 500V/600V)	81	1,66,250.00
15	Dual IGBT 20-30A (Voltage 1000V/1200V)	35	1,75,000.00
16	DC-DC Converter	02	75,520.00
17	AC-DC Converter	02	96,760.00
18	Cortex M4 Development Board	05	57,525.00
19	Power Converter Modules/ Accessories	04	1,81,720.00
20	Transceiver	30	68,676.00
21	DSPIC Control Boards	03	56,640.00

22	DSP Boards- TMS320F28335	02	75,048.00
23	FPGA SPARTAN Development Board	06	79,827.00
24	DC-AC Converter	01	99,910.00
25	Mounting Solar Panels	03	58,882.00

Machine Lab:

Sl. No	Name of the Equipment	Qty	Value
01	Load Box	17	7,34,457.40
02	LCR Meter	02	9,600.00
03	Multimeter	12	63,975.00
04	Tachometer (RPM Counter) Panel Mounted Tachometer	12 10	68,637.00
05	Watt Meter	35	1,14,371
06	AC Voltmeter (Analog)	19	21,584.00
07	AC Ammeter (Analog)	30	33,000.00
08	DC Voltmeter (Analog)	09	10,500.00
09	DC Ammeter (Analog)	32	38,557.00
10	Digital AC Voltmeter	25	23,750.00
11	Digital AC Ammeter	30	32,500.00
12	Digital DC Voltmeter	37	35,150.00
13	Digital DC Ammeter	81	90,550.00
14	Single Phase Power Quality Analyzer	01	2,25,560.00
15	BLDC Motor with experimental Setup	01	1,87,500.00
16	DC Compound Motors	02	2,18,300.00
17	Separately Excited DC Motors	02	1,25,979.00
18	Dc Machine Coupled with Three Phase Induction Machine	02	3,18,600.00
19	Single Phase Induction Motor 2HP Freight Charges	01	42420.00
20	DC Series Motor with Loading Arrangement	01	97,125.00
21	Wavect Controller Box	01	10,50,000.00
22	Capacitor Bank	75	1,77,833.00
23	Single Phase Auto Transformer	04	1,77,944.00
24	Single Phase Transformer (1/2/5 KVA)	03	30,621.00
25	Auto Transformer	03	52,746.00
26	Rheostats	50	167560.00
27	3 Phase Rectifier Unit	01	2,24,000.00
28	DC Motor Coupled with Dc Series Motor	01	96,674.00
29	3 Phase Squirrel cage Induction Motor	04	1,97,546.00
30	3 Phase Slip Ring Induction Motor	01	1,32,517.00

31	3KW DC Compound Machine Coupled With 3 Phase synchronous machine	02	2,67,855.00
32	DC Shunt Motor with Mechanical Load	01	84,483.00
33	DC Series Motor with Mechanical Load	01	84,483.00
34	3 Phase salient Pole Synchronous Machine with Mechanical Load	01	70,875.00
35	DC Machine Coupled with Dc Machine	01	50,076.00
36	Single Phase Induction Motor	01	22,464.00
37	3 Phase Induction machine coupled with 3.5 KW DC Machine	01	50,076

Computer Lab:

Sl. No	Name of the Equipment	Qty	Value
01	All in one Desktop	02	2,01,852.00
02	NEWLINE Interactive Touch Panel	01	1,60,000.00
03	NETWORK VIDEO RECORDER	01	18,800.00
04	Canon IR 2525W Printer with accessories	01	1,45,300.00
05	HP Printer	01	42,000.00
06	WORKSTATION	01	2,78,480.00
07	P2000 GRAPHICS	01	
08	LAPTOP	10	6,63,789.00
09	PRINTER(HP-M202DN)	02	30,343.00
10	DLINK DTR:890L Wireless Access Point	02	39,600.00
11	24" LED/TFT Color Monitor	04	41,800.00
12	DELL LATITUDE	45	30,97,798.00
13	CS UPS TO SERIAL CONECTOR	27	31,332.00
14	Cadence University Research Bundle (Software)	01	20,57,250.00
15	HP Desktop	07	3,77,797.00
16	HPZ640 Workstation NVIDIA Quadro K401GB Graphics	04	4,01,583.00
		04	
17	Advanced Controller Boards for Mini Projects for U.G Students		49,344.00
	1. Arduino Yun Board	01	
	2. Raspberry Pi 3 Board	03	
	3.Intel Edison Kit	01	
	4.Wi-Fi Module	02	

Power System Lab:

Sl. No	Name of the Equipment	Qty	Value
01	Relay Test Kit	01	1,365,000.00
02	Computer with UPS	06	1,35,228.00
03	Phasor Measurement Unit	01	645007.00
04	DSO 4 CH	02	198146.00
05	6000 Count True RMS Digital Multimeter	08	99908.00
06	Different Types of Electro-Magnetic and Numerical Relays	01	4,48,680.00
07	Micro Computer 8085 Adaptive Power Factor Controller	01	2,91,975.00
08	Micro Computer 8085 Based Static VAR Compensator	01	2,80,525.00
09	Micro Computer Based Numerical Over Current Relay	01	192360
10	Short Transmission Line Unit	01	2,23,275.00
11	HVDC Transmission Line Simulator with Bi-Polar Connection	01	5,15,250.00
12	Thyristor Controlled Series Compensator	01	3,76,705.00
13	Power Factor Controller	01	97,325.00
14	DC Network Analyzer	01	85,875.00
15	Measurements of Generalized ABCD of Constants for Ferranti Effect	01	1,11,065.00