



SRI VENKATESWARA COLLEGE OF ENGINEERING (Autonomous)

Karakambadi Road, Opposite LIC Training Centre, Tirupati – 517 507.
Accredited by NBA (B.Tech – CSE, ECE, EEE, Mech, Civil and IT) & NAAC with 'A' Grade
Approved by AICTE, New Delhi permanently affiliated to JNTUA, Ananthapuram.

Department of ELECTRICAL & ELECTRONICS ENGINEERING

NAME OF THE LAB: ELECTRICAL AND ELECTRONICS ENGINEERING WORKSHOP

LIST OF MAJOR EQUIPMENTS

SL.No.	Name of the Equipment	Quantity	Total Cost in Rs
1	PILER SET	3	540
2	three phase energy meters	1	1272
3	standard wire gage	3	636
4	multimeters	2	1100
5	wire coil 1.5mm	10	8900
6	wire coil 1 sq mm	3	2034
7	crocodile pins	200	1700
8	Cro probes	10	1190
9	soldering rods	3	508
10	battery cells AA	50	500
11	battery cells AAA	4 SHEETS	508
12	3-Pin sockets	20	1000
13	switches	20	560
14	gang box	10	570
15	3- pin tops	15	630
Total Cost of the Equipment			21648

In charge

HOD



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Department of ELECTRICAL & ELECTRONICS ENGINEERING

NAME OF THE LAB: ELECTRICAL CIRCUITS AND ANALYSIS LAB

LIST OF MAJOR EQUIPMENTS

SL.No.	Name of the Equipment	Make	Quantity	Cost per Unit in Rs	Total Cost in Rs
1	PS-02D, 0-30V/2A, 5V Dual Channel DC Power Supply	FALCON	12	4,500	54,000
2	Three Phase Loading Inductor (1-10A)	Associate	1	18,850	18,850
3	PL 11.01 Rheostat (32 ohms/2.8A)	Toshniwala	2	1,930	3,860
4	PL 12.01 Rheostat (25ohms/5A)	Toshniwala	4	1,965	7,860
5	DC Ammeters (1A/2A)	Meco	20	915	18,300
6	DC Voltmeters (15V/30V/75V)	Meco	19	900	17,100
7	DMM 40 Digital Dual Display Bench Top Multimeter with USB Interface & Software	Falcon	1	10,750	10,750
8	Decade Capacitance Box	Sun Seas Tech	6	2,350	14,100
9	FG-02 2MHz Function Generator with Frequency Counter	Falcon	2	4,562	9,125
10	Decade Inductance Box	Sun Seas Tech	6	1,950	11,700
11	Decade Resistance Box	Sun Seas Tech	6	1,200	7,200
Total Cost of the Equipment					172,845

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Department of ELECTRICAL & ELECTRONICS ENGINEERING

NAME OF THE LAB: DC MACHINES AND TRANSFORMERS

LIST OF MAJOR EQUIPMENTS

SL.No.	Name of the Equipment	Make	Quantity	Cost per Unit in Rs	Total Cost in Rs
1	DC Power Supply Unit (Rectifier)	Abdec	1	101045	101,045
2	DC Shunt Motor	Benlec	2	27000	54,000
3	Two Identical DC Shunt Machines Coupled to each other	Benlec	1	49402	49,402
4	DC Shunt Motor Coupled to DC Shunt Generator	Benlec	1	49164	49,164
5	DC Shunt Motor Coupled to DC Series Generator	Benlec	1	49164	49,164
6	DC Shunt Motor Coupled to DC Compound Generator	Benlec	1	49164	49,164
7	Two Identical DC Series Machines Coupled to each other	Benlec	1	49164	49,164
8	DC Shunt Motor Coupled to DC Shunt Generator	Benlec	1	44260	44,260
9	230V/5kW 10 Steps Resistive Load	Abdec	3	13240	39,720
10	Single Phase Resistive Load 230V/7.5kW 10 Steps	Abdec	2	17900	35,800
11	PL 16.01 Rheostat (100 ohms/5A)	Toshniwala	5	6140	30,700
12	DC Shunt Motor	Benlec	1	30039	30,039
13	DC Compound Motor	Benlec	1	30039	30,039
14	Single Phase Transformer	Abdec	5	9500	47,500
15	Single Phase Auto Transformer (Variac)	Abdec	4	4540	18,160
Total Cost of the Equipment					470,874

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Department of ELECTRICAL & ELECTRONICS ENGINEERING

NAME OF THE LAB: AC MACHINES

LIST OF MAJOR EQUIPMENTS

SL.No.	Name of the Equipment	Make	Quantity	Cost per Unit in Rs	Total Cost in Rs
1	Three Phase Auto Transformer	Abdec	4	14850	59,400
2	DC Shunt Motor Coupled to Synchronous Alternator Salient Pole	Benlec	1	50167	50,167
3	DC Shunt Motor Coupled to Non-Salient Pole Cylindrical Rotor Alternator	Benlec	1	48595	48,595
4	DC Shunt Motor Coupled to Synchronous Alternator	Benlec	1	45170	45,170
5	AC Synchronous Cage Induction Motor	Benlec	2	19227	38,454
6	Single Phase Resistive Load 230V/7.5kW 10 Steps	Abdec	2	17900	35,800
7	Auto Synchronous Motor	Benlec	1	31297	31,297
8	PL 16.01 Rheostat (100 Ohms/5A)	Toshniwala	5	6140	30,700
9	Three Phase Inductive Load Variable 415V/10A	Abdec	1	29650	29,650
10	PL 16.01 Rheostat (290 ohms/2.8A)	Toshniwala	5	4950	24,750
11	AE-Scott Connection Transformer 2kVA 400V/230V	Associate	1	23600	23,600
Total Cost of the Equipment					417,583

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Department of ELECTRICAL & ELECTRONICS ENGINEERING

NAME OF THE LAB: CONTROL SYSTEMS AND SIMULATION

LIST OF MAJOR EQUIPMENTS

SL.No.	Name of the Equipment	Make	Quantity	Cost per Unit in Rs	Total Cost in Rs
1	Lead-Lag Compensating Network Study Unit	Frax	1	12,750	12,750
2	Temperature Controller Using PID	Frax	1	14,350	14,350
3	Characteristics of Synchro Transmitter Receiver Pair	Frax	1	16,300	16,300
4	Effect of P, PI, PD, PID Controller on Second Order System	Frax	1	16,650	16,650
5	Speed-Torque Characteristics of A.C Servomotor	Frax	1	15,500	15,500
6	Transfer Function of D.C Motor – Study Unit	Frax	1	15,700	15,700
7	Programmable Logic Controller	Sun Seas Tech	1	28,000	28,000
8	Magnetic Amplifier	Sun Seas Tech	1	25,135	25,135
9	Oscilloscopes SM410 Model	SCIENTIFIC	5	9450	47,250
Total Cost of the Equipment					191,635

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Department of ELECTRICAL & ELECTRONICS ENGINEERING

NAME OF THE LAB: ELECTRICAL MEASUREMENTS

LIST OF MAJOR EQUIPMENTS

SL.No.	Name of the Equipment	Make	Quantity	Cost per Unit in Rs	Total Cost in Rs
1	Single Phase Single Element Power Factor Meter	Meco	1	3,100	3,100
2	Portable Potentiometer	Toshniwal	1	12,522	12,522
3	Crompton D.C Potentiometer	Oxford	1	11,493	11,493
4	Kelvin’s Double Bridge	Oxford	1	10,490	10,490
5	Schering Bridge	Oxford	1	8,141	8,141
6	Anderson Bridge	Oxford	1	8,141	8,141
7	Linear Variable Differential Transformer (LVDT)	Hem	1	7,730	7,730
8	Capacitive Pick-up	Hem	1	5,389	5,389
9	LPF Single Phase Port. Wattmeter	Mecog	2	1,960	3,840
10	UPF Single Phase Port. Wattmeter	Mecog	4	1,344	4,224
11	Three Phase Loading 5kW Rheostat	AE	1	14,800	14,800
12	Phase Shifting Transformer	AE	1	26,800	26,800
13	Service Meters	Maxwell	2	525	1,050
14	Digital Stop Watch	Racer	2	375	750
Total Cost of the Equipment					1,18,470

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Department of ELECTRICAL & ELECTRONICS ENGINEERING

NAME OF THE LAB: POWER ELECTRONICS AND SIMULATION

LIST OF MAJOR EQUIPMENTS

SL.No.	Name of the Equipment	Make	Quantity	Cost per Unit in Rs	Total Cost in Rs
1	Gate Firing Circuits for SCR's	Pragna	1	3,400	3,400
2	Single Phase AC Voltage Controller with R & RL Loads	Pragna	1	10,000	10,000
3	Single Phase Fully Controlled Bridge Converter with R & RL Loads	Pragna	1	13,100	13,100
4	Single Phase Cycloconverter with R & RL Loads	Pragna	1	26,750	26,750
5	DC Jones Chopper with R & RL Loads	Pragna	1	15,200	15,200
6	Single Phase Series Inverter (30V/2A) with R & RL Loads	Pragna	1	12,500	12,500
7	Single Phase Dual Converter with R & RL Loads	Pragna	1	35,600	35,600
8	Forced Commutation Circuits Study Unit	Pragna	1	9,575	9,575
9	Three Phase Half Controlled Bridge Converter with R & RL Loads	Pragna	1	25,100	25,100
10	Study of characteristics of SCR, MOSFET and IGBT	Pragna	1	6,000	6,000
11	Oscilloscopes SM410 Model	Scientific	5	9,450	47,250
Total Cost of the Equipment					204,475

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Department of ELECTRICAL & ELECTRONICS ENGINEERING NAME OF THE LAB: POWER SYSTEMS AND SIMULATION

LIST OF MAJOR EQUIPMENTS

Sl.No.	Name of The Equipment	Company	Quantity	Unit cost	Total Cost
1	Sequence impedances of cylindrical rotor synchronous machine.	Valika Electronics, Hyderabad	1	63,500	63,500
2	Fault analysis – I (LG Fault, LL Fault)	Valika Electronics, Hyderabad	1	63,500	63,500
3	Fault analysis – II (LLG fault, LLLG Fault)	Valika Electronics, Hyderabad	1	63,500	63,500
4	Equivalent circuit of Three winding transformer	Valika Electronics, Hyderabad	1	1,11,625	1,11,625
5	DC Shunt Motor Coupled to Synchronous Alternator	Benlec	1	45,170	45,170
6	MAT LAB 7.5	Capricot Tech Pvt.Ltd.	30 Users	18,500	185,000
Total Cost of the Equipment					420,670

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Department of ELECTRICAL & ELECTRONICS ENGINEERING

NAME OF THE LAB: SIMULATION LAB-1

LIST OF MAJOR EQUIPMENTS

S.No	NAME OF THE EQUIPMENT	MAKE	CONFIGURATION	NUMBER
1	COMPUTER 18.5" Wide Screen Monitor with LED Back Light, USB Optical Mouse and USB Keyboard	DELL	Intel Core i5 Processor 2.9GHz, 8 GB DDR3 RAM and 500 GB HDD.	36
2	24 Port Switch	DLINK	10/100 Fast Ethernet Switch	2
3	UPS	POWERINN	20KVA	1

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NAME OF THE LAB: STEAD LAB / SIMULATION LAB-2

LIST OF MAJOR EQUIPMENTS

S.No	NAME OF THE EQUIPMENT	MAKE	CONFIGURATION	NUMBER
1	COMPUTER 18.5" Wide Screen Monitor with LED Back Light, USB Optical Mouse and USB Keyboard	DELL	Intel Core i5 Processor 2.9GHz, 8 GB DDR3 RAM and 500 GB HDD	36
2	24 Port Switch	DLINK	10/100 Fast Ethernet Switch	2
3	UPS	POWERINN	20KVA	1

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NAME OF THE LAB: PROJECT WORK

LIST OF MAJOR EQUIPMENTS

S.No	NAME OF THE EQUIPMENT	MAKE	CONFIGURATION	NUMBER
1	COMPUTER 18.5" Wide Screen Monitor with LED Back Light, USB Optical Mouse and USB Keyboard	DELL	Intel Core i5 Processor 2.9GHz, 8 GB DDR3 RAM and 500 GB HDD	6
2	24 Port Switch	DLINK	10/100 Fast Ethernet Switch	2
3	UPS	POWERINN	20KVA	1

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