

K.S.R. COLLEGE OF ENGINEERING: THIRUCHENGODE – 637 215.
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
MAJOR EQUIPMENT DETAILS

S.No.	Name of the Lab	Major Equipment Details
1.	Electrical Machines Lab	7.5 KW DC Shunt motor
2.		5.2 KW DC compound generator
3.		5.2 kW DC shunt Motor
4.		5.2 kW DC Shunt generator
5.		5.2 kW DC compound generator
6.		A.C. panel with L&T interiors
7.		D.C. panel with L&T interiors
8.		Floor mounting type rectifier , 415v, 3 Φ ,50Hz, AC/220 v DC \pm 10%, 100Amps
9.		5KVA, 230V/ 1.5 A Excitation AC Generator
10.		5HP, 1500 rpm, 3 phase, slip-ring induction motor with brake drum loading arrangements
11.		5HP, 3 phase, slip-ring induction motor
12.		5kVA, 230V/ 1.5 A Excitation AC Generator
13.	Microprocessor and Microcontrollers Lab	Intelligent Universal Programmer
14.		TMS 320C5416 DSP kit
15.		TMS 320C6713 DSP kit
16.		FPGA Spartan II VLSI kit with JTAG
17.		KEIL PK51(SU2) software C51 professional developer kit
18.		In circuit emulator and IDE for 8051 family
19.	Power Electronics Lab	Analog oscilloscope Power scope
20.		Power scope, Analog oscilloscope
21.		Power scope, Analog oscilloscope
22.		Three phase converter firing unit(μ p based)
23.		Three phase converter firing unit
24.		Single phase dual converter firing unit
25.		single phase IGBT / MOSFET based PWM inverter firing unit
26.		Commutation Chopper Circuit
27.		Single phase cyclo converter Kit
28.		Single phase series inverter Kit
29.		Single phase parallel inverter Kit
30.		Three Phase Half/ Fully Controlled Bridge Converter Kit
31.		Programmable power supply
32.		DC regulated High voltage 0-300v /2A

33.		DIGITAL oscilloscope 40 HZ
34.		a)3 phase stator voltage controlled induction motor driver kit with firing unit b) 3 phase vector controlled induction motor drive with firing unit and and 3 phase induction motor c)DSP controlled AC drives and three phase induction motor d)vector controlled software
35.		IGBT based Three phase SVPWM inverter with 3 phase induction motor
36.		IGBT based Three phase PWM inverter with 3 phase induction motor
37.		Switching characteristics of SCR,MOSFET, TRIAC & IGBT
38.		Dual converter fed DC motor Drives
39.		Chopper fed DC drives
40.		IGBT based three phase PWM inverter
41.		1 HP DC shunt motor with Spring balance load setup with QEP sensor
42.		DIGITAL oscilloscope 25M HZ
43.		Micro Controller Based Speed Control Of Converter/ Chopper Fed DC Motor
44.		Micro Controller Based Speed Of VSI Fed Three-Phase Induction Motor
45.		Micro Controller Based Speed Of Stepper Motor
46.		Self Control Operation Of Synchronous Motor
47.		Condition Monitoring Of Threephase Induction Motor Under Fault Conditions
48.		Re-Programmable Logic Devices And Programming
49.	Simulation Laboratory	Computer System Zenith Black PC
50.		HCL Server System Intel Xeon Processor
51.		Computer System Intel Core 2 duo E4600 Processor
52.		Computer System Intel Core 2 duo E4600 Processor
53.		HP Laser Jet 1022
54.		Dot Matrix Printer MPS 345
55.		HP Laser Jet 1008
56.		SEagate 500 GB hard disk
57.		LCD Projector
58.		Mi Power Software 5 User
59.		Mat lab Software
60.	Electric Drives	Speed Control of DC Motor Using 3 Phase Rectifier
61.		Speed Control of 3 phase induction Motor with PWM Inverter DSP Based closed loop drive for Induction Motor

62.	and control Lab	Induction Motor Speed Control using FPGA
63.		Speed Control of Brushless DC Motor
64.		DSP Based Chopper fed DC Motor Drive
65.		Switched Reluctance Motor Drive using DSP
66.		PLC Based Drive
67.	Control systems Lab	Speed measurement & closed loop control of AC servo motor-PEC 00A Sl.No. 407,251,10
68.		Stepper motor controller Trainer VSMT 02 ,Sl.No.60
69.		Process control simulator-ITB PCS 01 Sl.no.130,2670
70.		DC Servo motor speed torque characteristics
71.		Linear system simulator Sl.no:324,326
72.		DC Position control system Sl.no. 223 [DCP-01]
73.		Synchro Transmitter and Receiver
74.		Transfer function of DC servo motor[VPET-300-A] Sl.No.241,377 Motor Sl.No.1002.6464
75.		Transfer function of AC servo motor [VPET-302] Sl.No.287 Motor Sl.No.135
76.		Stability Analysis of system [VPCS-04] Sl.No.31
77.		DC motor position control Systems [PEC-01] Sl.No.246 Motor Sl.No.RDAH9970
78.		Analog simulation of type-0 and type-1 systems(Process control simulator) [PCS-01] Sl.No.485
79.		AC servo motor position control systems [PEC-02] Sl.No.48,168
80.		Digital simulation of systems [VDCS-02] Sl.No.19
81.	Measurement & Instrumentation Lab	Torque Measurement Trainer Kit
82.		LVDT Measurement Trainer Kit
83.		Pressure Measurement Trainer Kit
84.		Angle Measurement Trainer
85.		Transient Measurement Using RC/RLC/RL Circuits
86.		Measurement of Iron Loss using Ring
87.		Power scope
88.		Digital Storage Oscilloscope
89.		LCRQ bridge
90.		Analog IC Tester

91.	Electron Devices and Circuits Lab	KEIL Software for C51 & ARM Processor
92.		8051 Hardware with interfacing board
93.		Universal PIC Embedded Nano Trainer kit with interfacing boards
94.		ARM hardware
95.		16 Bit Processor:MSP430 Microcontroller
96.		ATMEL ARM 9263 Development Board (Vi-AT91sam9263)
97.		ARM DSTREAM/DS5 - KT0181A ARM DSTREAM/ DS5- KT 0181A Hardware
98.		DSP TRAINAR KIT