## K.S.R. COLLEGE OF ENGINEERING, TIRUCHENGODE - 637 215

# **Department of Electrical and Electronics Engineering**

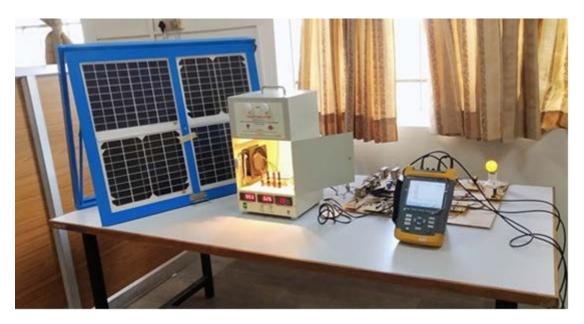
#### **Special Research Laboratories**

Sl.No.	Name of the Laboratory	Name of the Special Equipment	Use/ Application of the Equipment/Software for research activities
1	Measurement and Instrumentation Laboratory	Ni Academic Site License 50 Users	Used to develop automated research, validation and protection test systems
		NI ELVIS II +Circuit Design Bundle	
		NI Digital Electronics FPGA Board	
		NI 9214 16-ch Isothermal TC,24 bit T Series module	
		NI 9219 4 Ch-Ch, Universal AI module	
		NI 9217 Analog Input Module	
		NI 9235 Bridge Input Module	
		cDAQ-9178	
2	Power Electronics & Drives Laboratory	Three-phase IPM based Power Module	To develop and validate the hardware prototype of different power converters
		IGBT based Three-phase SVPWM Inverter with three- phase Induction Motor setup	
		IGBT based Three-phase PWM Inverter	
		Dual Converter Power Module	
		Chopper/Inverter PWM Module	
3	Power Electronics Laboratory	IGBT Power Module	To develop and validate the hardware prototype of different power converters
		SCR Power Module	
		TRIAC Power Module MOSFET Power Module	
4		Power Quality Analyzer	Used to continuously monitor and Analyse power quality
	Research Lab	Solar Panel with Simulator	The purpose of the solar

	simulator is to provide a controllable indoor test facility under laboratory conditions
IOT Learning Kit	To build IoT projects
Raspberry Pi foundation Kit	To control electronic components for physical computing and explore the IoT

# (Autonomous) DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

### Research Laboratory



Solar Panel, Solar Simulator and Power Quality Analyzer