

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 | |
| 2 | Power Electronics & Drives Laboratory | cDAQ-9178 | To develop and validate the hardware prototype of different power converters |
| | | Three-phase IPM based Power Module | |
| | | IGBT based Three-phase SVPWM Inverter with three-phase Induction Motor setup | |
| | | IGBT based Three-phase PWM Inverter | |
| | | Dual Converter Power Module | |
| 3 | Power Electronics Laboratory | Chopper/Inverter PWM Module | To develop and validate the hardware prototype of different power converters |
| | | IGBT Power Module | |
| | | SCR Power Module | |
| | | TRIAC Power Module | |
| 4 | Research Lab | MOSFET Power Module | Used to continuously monitor and Analyse power quality |
| | | Power Quality Analyzer | |
| | Research Lab | Solar Panel with Simulator | The purpose of the solar |

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| | | | 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