Research Area-1: Power System Computational Research Facility	
	➢ MATLAB ➢ Motorsolve ➢ ETAP

Research Area-2: Renewable Energy Research Lab	
	➢ Solar Array Simulator
➢ Wind Turbine Emulator	

Research Area-3: Microgrid Operation and Control Research Lab	
	➢ OPAL RT Windmill simulator ➢ Mixed Signal Oscilloscope 8 Channel

➢ dSpace 1104	
Research Area-4: Smart Grid Research Lab	
	dSpace Microlabbox Digital Storage Oscilloscope
Research Area-5: Energy Conversion and Microgrid Research Lab	
	➢ PV simulator/ Programmable DC Power Supply Ametek - TerraSAS ETS 600/8 ➢ Bidirectional DC DC Converter TDK Lambda EZA 2500-32048 ➢ DC Programmable Source (Delta 15kW Bidirectional Regenerative Programmable DC Power Supply; Model No. : SM 500-CP-90) ➢ DC Programmable Load (Chroma Make 2 kW Programmable DC Electronic Load; Model No.: 6320E-150-200) ➢ Enertech 5kW 3phase Inverter; Model No. : SOLAR PCU (Sunmagic +)) ➢ dSpace-ACE KIT (Advanced Control Education Kit) 1104

- Programmable Grid Tie Source Link Bidirectional Power Supply - Batsim Application Software For Battery Simulation Program - Sas Control Application Software For Solar Array Simulation Software - Matrix Convertor 25 Kva 9 Level Cascaded Invertor	

Research Area-6: Project and Research Lab

	- PMSM drive - IM drive - SCADA based drive control
- PLC based drive control - Three phase induction generators set up, DSO, Power Quality Analyser - Real Time mini FSS simulator	

Research Area-7: Power Quality Lab

	- dSPACE 1104 - Microlab box

➢ PV simulator ➢ Three Phase Programmable Supply	
Research Area-8: Analog Signal Processing Research Lab	
	➢ Cadence Virtual Virtuso Software Tool
Research Area -9: Control of Dynamical Systems and Computation Lab	
	➢ Twin Rotor Motor Helicopter System
➢ Cart Inverted Pendulum System	

Research Area-10: Control and Automation Research Lab	
	➢ Two Degree Helicopter System
➢ Ball Plate System	

Research Area-11: Embedded System and IOT Lab	
	➢ VxWorks Software developed by Wind River Systems

Research Area-12: Electric Vehicle and Intelligent Transportation System Lab	
	➢ Meshlium 4G Scanner ➢ Sidra intersection 9.0 Software ➢ Digital Storage Oscilloscope ➢ Traffic Simulator and Controller

14 Seater Electric Bus 3 Seater E-Rickshaw - Three Port Battery Charger	
Research Area-13: Synchrophasor Lab	
	- Siemens PMU IED - Opal RT Real Time Digital Simulator - Megger Relay Test Kit