

Name of the Laboratory	Significant equipments and software available	Faculty In-charge
Advanced Electrical Drives and Digital Controller Lab	dSPACE Micro Lab Box, Opal RT Real Time Simulator, SiC Devices Based Power Modules, Three Phase and Single Phase Power Quality Analyzer, Solar Power Emulator, RLC meter, Spectrum Analyzer, Workstation HP Z620, 1.2 kW Fuel Cell, Oscilloscope, DSP Based Switched Reluctance Motor Drive, DSP Based Induction Motor Drive, DSP Based PMSM Drive, Intelligent Power Modules, Discrete Power Modules and Peripherals, Power Electronic Work Bench	 Dr. Lalit Kumar Sahu



Advanced Electrical Drives and Digital Controller Lab



Real Time Signal Analyzer (RSA 5103B)



Machine Core System



dSPACE Microlab Box



Fuel Cell System



dSPACE 1103 Real Time Digital Controller



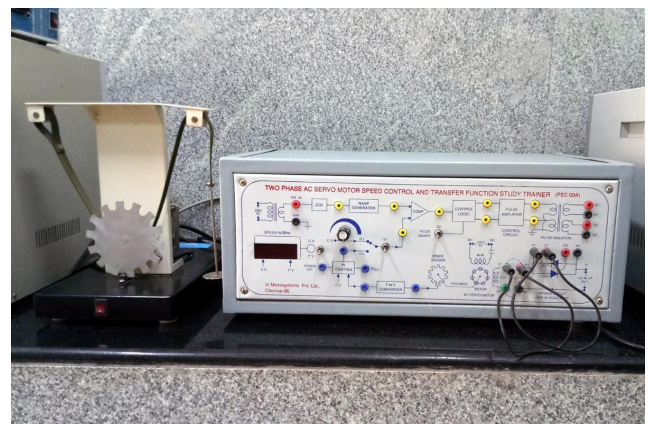
Solar PV Emulator



PI Controller and Speed Indicator & Closed Loop Control Of AC Motor



Temperature Control System (VTVS-02)



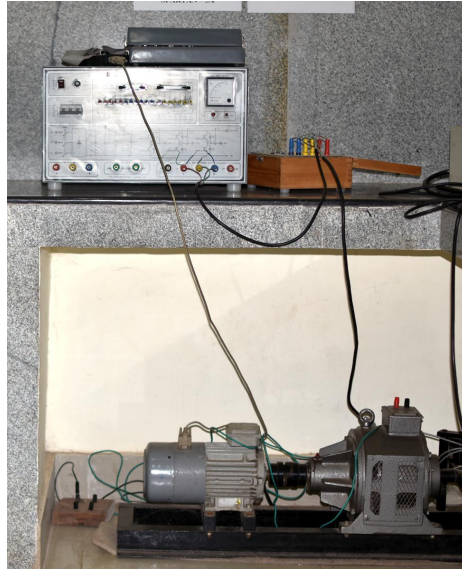
Two Phase AC Servo Motor Speed Control and Transfer Function Study Trainer (PEC 05A)



Intelligent Power module (PEC16DSM01)



FPEG controller VERTEX -7 Z board SPARTAN-3A



**Ward Leonard Speed Control
System Transfer Function Study
Trainer (PEC14HV2)**

3 Phase Induction Motor Drive

Cycloconverter Setup



3 Phase PMSM Drive Setup

3 Phase PMSM Drive Setup

**Switched Reluctance Motor Drive
Setup**



**Single Phase SCR Power Module
(PEC14HV4D)**



**Electrical Braking of 3 Phase
Induction Motor (VPET-405)**



OPAL-RT(OP5600)