Numerical Relay Development Environment

P R D C®
विज्ञानेन जानानि जीवन्ति

NRDE

Product Highlights

Objectives :

- To setup a high tech numerical relay development environment.

- To teach the student the significance of different protection techniques and algorithms.

- To enable students implement their own algorithms and verify the response.

- To help the students to conduct project work by developing algorithms.

- To enable the students to test algorithms in real life situation by using PC based test system.

Project Details :

The complete setup consists of –
1. Concept Relay Hardware
2. Programming IDE (Software)
3. Programmer
4. Test Setup
5. Testing Software

The Concept Relay Hardware is an uniquely designed hardware which replicates an actual relay. This hardware can be programmed using Programming IDE and Programmer. Any algorithm can be coded and can be tested for its characteristics and response. The Test Setup is connected to a PC. Simulation data can be generated using simulation software and then can be downloaded to the Testing Software. The Test Setup then generates the signals accordingly and passes to the Concept Relay Hardware.

This enables students and research associates to verify and test different relaying / protection algorithms in a real life condition.

Programming IDE (Software)

1. Testing Software
2. Simulation Software

PC - 1   PC - 2

Programmer   Digital Test Setup

Concept Relay Hardware

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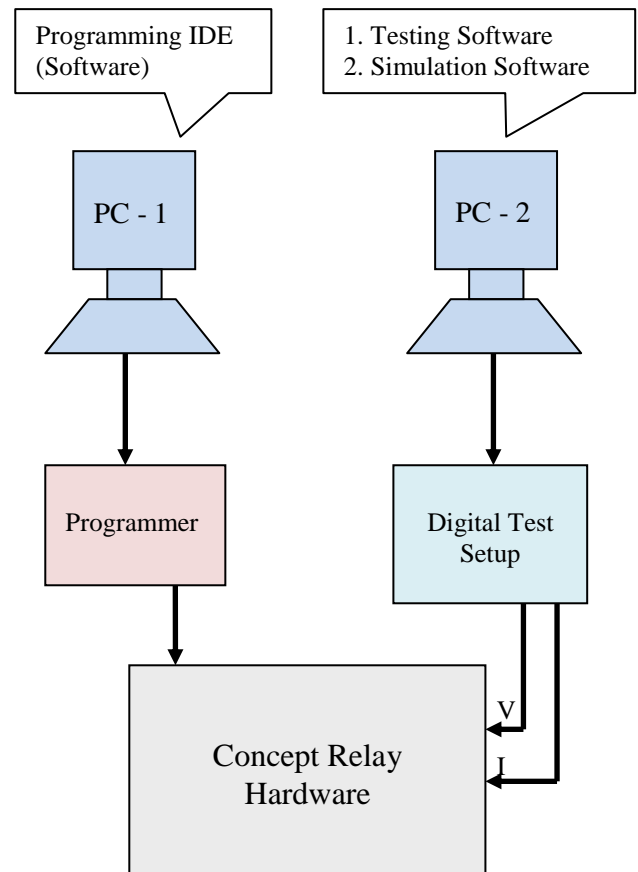
Conceptualized by Industry Experts for academic Institutions

In the electrical engineering stream, the aspects of power system analysis and operation and control are imparted both in UG and PG level. Most of the experiments are carried out with the software simulation. However the student cannot visualize the various physical aspects of operation and control using mathematical calculations and simulations. This system is dedicated to give a feel of real life testing of various algorithms used in Power System domain.

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