Course 601

Powerflow and Short Circuit Analysis Using PSAT

Course objectives	To provide the necessary background and technical skills for applications of PSAT
Material covered	• The basic concepts of powerflow and short circuit analysis of power systems • Modeling, computational techniques, and analysis methods • Operation of PSAT • Result analysis
Who should attend	Engineers involved in • powerflow and short circuit analysis of power systems using PSAT • other types power system analysis (such as stability analysis)
Background required	Basic knowledge of power system modelling and operation
Duration	1 day (extendable upon request)

Part 1: Descriptions of PSAT

1. Introduction to PSAT
2. Main features
    - Analysis
    - Data manipulation
    - Single-line diagram
    - Study tools
    - Reporting
    - Advanced features
3. Input/output data formats
4. Program customization and operation
5. Help sources

Part 2: Hands-on Exercises

1. Test case descriptions
2. Hands-on exercises including the following topics:
    - Import/export data
    - Manage powerflow information
    - Work with single-line diagrams
    - Solve powerflow and examine results
    - Use other functions in PSAT

Note: the actual contents of the course may be customized based on user requests; please refer to the course announcement for details.