Load Forecasting & Economic Dispatch

TE270

Course Overview:

This course introduces electric load forecasting from both statistical and practical aspects using the language and examples in the power industry. Through hands-on exercises, participants gain experience of load forecasting for a variety of horizons (short, very short, medium and long term forecasts).

Course Objective:

-Review of electric power distribution load characteristic (how it is done)
-Understand practical characteristic and planning methods
-Understand basic theory and mathematics of modern distribution load characteristic.
-Estimate Power Quality State
-Specify the accuracy and information content requirements

Course Outline:

1. Basic statistical concepts
2. Regression analysis
3. Time series and linear regression
4. Load forecasting using minitab
5. Load forecasting using time series
6. Load forecasting using neural network

Who Should Attend:

Engineers, managers, planners and analysts who work for power supply companies and who have to make investment decisions requiring a better understanding of how the power system impacts the economics of generation.

Training Language:

EN / AR

Training Methodology:

-Presentation & Slides
-Audio Visual Aids
-Interactive Discussion
-Participatory Exercise
-Action Learning
-Class Activities
-Case Studies
-Workshops
-Simulation