

## **(0401746) Computational Methods for Power System Analysis**

**(3 credit Hours)**

Introductory overview of computational methods used for analytical studies in power systems Fundamental techniques for the analysis of large-scale electrical systems, including methods for nonlinear and switched systems Concepts, and techniques concerned with the design, testing, and application of general-purpose problemoriented computer programs for analyzing large-scale systems. introduce various linear and nonlinear program based optimization algorithms that are specially suited for the design, analysis and operation of electric power systems, power processing devices, machines and transformers.