
Course Title : Numerical Methods in Chemical Engineering

- **Aim:**

Introduction to Numerical Methods and their Applications in Solving Different Problems in Chemical Engineering

- **Syllabus:**

- ✓ An Introduction to Numerical Methods
- ✓ Analysis of laboratory data
- ✓ Mathematical formulation of equations of state and chemical equilibrium
- ✓ Differential distillation and liquid vapor equilibrium of multicomponent mixtures
- ✓ Unstable mass and energy balance
- ✓ Mass and energy transfer in more than one dimension

- **Reading Resources:**

A Constantinides N Mostoufi - Numerical methods for chemical engineers with MATLAB applications