

**Course Plan - Numerical Methods**  
**L-T-P : 2-1-1**

C1:

Unit 1- Introduction, Curve fitting, Taylor series, Roots of equations, Linear algebraic equations

Unit 2- Optimization and minimization, Numerical differentiation and integration

C2

Unit 3- Ordinary differential equations, Eigen Values and Eigen Vectors

Unit 4- Molecular dynamics, Monte Carlo algorithm