SNS COLLEGE OF ENGINEERING
Kurumbapalayam (Po), Coimbatore - 641107

## AN AUTONOMOUS INSTITUTION

Approved by AICTE, New Delhi \& Affiliated to Anna University, Chennai

## Tutorial

## Numerical integration:

1. Using Trapezoidal rule, evaluate $\int_{-1}^{1} \frac{d x}{1+x^{2}}$ by talking eight equal intervals
2. Using Trapezoidal rule, evaluate $\int_{0}^{6} \frac{d x}{1+x^{2}}$ by talking six equal intervals
3. By dividing the range intoten equal parts, evaluate $\int_{0}^{\pi} \sin x d x$ by trapezoidal \& Simpson's rule. Verify your answer with actual integration.
4. By dividing the range intoten equal parts, evaluate $\int_{0}^{\pi / 2} \sin x d x$ by trapezoidal \& Simpson's rule. Verify your answer with actual integration
