

SNS COLLEGE OF ENGINEERING Coimbatore – 641 107



Topic: Taylor's series Method

- 1. Using Taylor series method find y at x = 0.1 given $dy/dx = 2y + 3e^x y(0) = 0$.
- 2. Using Taylor series method find correct to 4 decimal places the value of $\ y(0.1)$ given

$$\frac{dy}{dx} = x^2 + y^2$$
 y(0) =1.

dx

3. Using Taylor series method find the value of y at x = 0.1 and 0.2to 4 decimal places given

$$\frac{dy}{dy} = x^2 y - 1 \ \mathbf{y(0)} = 1.$$

dx