

## SNS COLLEGE OF ENGINEERING Coimbatore - 641 107



## **TUTORIAL-3**

## SOLUTIONS OF LINEAR EQUATIONS OF HIGHER ORDER WITH CONSTANT <u>COEFFICIENT</u>

- 1. Solve (D<sup>2</sup>+3DD'+2D'<sup>2</sup>)z=x+y.
- 2. Solve  $(D^3-7DD'-6D'^3)z=\sin(x+2y)+e^{3x+y}$
- 3. Solve  $(D^2-DD'+D'-1)z=0$ .
- 4. Solve (D<sup>2</sup>+2DD'+D'<sup>2</sup>)z=x<sup>2</sup>y