

SNS COLLEGE OF ENGINEERING Coimbatore – 641 107



TUTORIAL-3

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

- 1. Solve (D²+3DD'+2D'²)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 (D²+2DD'+D'²)z=x²y