

**SNS COLLEGE OF ENGINEERING** 

Coimbatore - 641 107



## TOPIC 12: Tutorial 3

- 1. Solve the following difference equation  $y_{n+2} + y_n \equiv 1$  given that y(0) = y(1) = 0
- 2. Solve the following difference equation  $y_{n+3} 3y_{n+1} + 2y_n = 0$  given that y(0) = y(1) = 0
- 3. Solve the following difference equation  $y_{n+2} + 2y_{n+1} + y_n = n$  given that y(0) = y(1) = 0