



## SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

**AN AUTONOMOUS INSTITUTION**



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### **Gauss Gauss Jordan method:**

1. Solve the system of equations by Gauss Jordan method.  
 $2x+3y-z=5$ ;  $4x+4y-3z=3$ ;  $2x-3y+2z=2$ .
2. Using Gauss-Jordan, solve the following system  
 $10x+y+z=12$ ;  $2x+10y+z=13$ ;  $x+y+5z=7$ .

### **Gauss Jacobi and Gauss seidal method:**

3. Solve the following system of equations by Gauss-Jacobi method & Gauss-Seidel method.  $27x + 6y - z = 85$ ,  $x + y + 54z = 110$ ,  $6x + 15y + 2z = 72$
4. Solve the following system of equations by Gauss-Seidel method.  
 $4x + 2y + z = 14$ ,  $x + 5y - z = 10$ ,  $x + y + 8z = 20$