Progamme: ICE **Control systems** Term:IV

Assignment 2

I.Answer the following questions(small questions)

1. Write the Mason's gain formula

2. Define non- touching loop in SFG

3. Write the block diagram reduction rule for eliminating negative feedback loop

4. What is stepper motor?

5. What is servo motor?

II Answer the following questions(big questions)

1. Obtain the Transfer function of RLC series circuit.

2. Explain the SFG method to obtain the overall Transfer function of a system.[Draw any one SFG and explain]

3. Explain the construction and working of permanent magnet stepper motor with necessary diagram.

Note: Students, after completing this assignment, take the Photo copy of the hand written answers and send to the mail id **vijayalakshmi9500@gmail.com** on or before 18.4.2020 without fail.